The Johns Hopkins University

Conferring of Degrees

At the Close of the

114th Academic Year

May 24, 1990

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Order of Procession

MARSHALS

Stephen R. Anderson
Andrew S. Douglas
Elliott W. Galkin
Grace E. Goodell
Sharon S. Krag
Bonnie J. Lake
Bruce D. Marsh
Marion C. Panyan
Peter B. Petersen
Edward Scheinerman
Henry M. Seidel
Stella Shiber
Susan Wolf
Eric D. Young

THE GRADUATES

❧

MARSHALS

Jerome Kruger
Dean W. Robinson

THE FACULTIES

❧

MARSHALS

Frederic Davidson
A.J.R. Russell-Wood

THE DEANS
OFFICERS OF THE UNIVERSITY
THE TRUSTEES

❧

CHIEF MARSHAL

Owen M. Phillips

THE PRESIDENT OF THE JOHNS HOPKINS UNIVERSITY ALUMNI COUNCIL
THE CHAPLAINS
THE PRESENTERS OF THE HONORARY DEGREE CANDIDATES
THE HONORARY DEGREE CANDIDATES
THE INTERIM PROVOST OF THE UNIVERSITY
THE GOVERNOR OF THE STATE OF MARYLAND
THE CHAIRMAN OF THE BOARD OF TRUSTEES
THE PRESIDENT OF THE UNIVERSITY

Order of Events

Steven Muller

President of the University, presiding

❧ ❧ ❧

PRELUDE

La Mourisque
Tielman Susato (? -1561)

Basse Dance
Tielman Susato (? -1561)

Two Ayres for Cornetts and Sagbuts
John Adson (? - 1640)

Sonata No. 22
Johann Pezel (1639-1694)

❧

PROCESSIONAL

The audience is requested to stand as the Academic Procession moves into the area and to remain standing after the Invocation.

FESTIVAL MARCHES

❧

THE PRESIDENT'S PROCESSION

Fanfare

Walter Piston
(1894-1976)

Pomp and Circumstance March No. 1

Sir Edward Elgar
(1857-1934)

❧

INVOCATION

Gretchen van Utt
Chaplain
The Johns Hopkins University

❧

THE NATIONAL ANTHEM

❧

GREETINGS

Morris W. Offit
Chairman of the Board of Trustees

❧

GREETINGS

Wendell Smith
President, The Johns Hopkins University Alumni Council

❧

CONFERRING OF HONORARY DEGREES

Douglass Cater
Willard Hackerman
Claudia Taylor Johnson
D. Mead Johnson
Robert H. Levi
Robert Shaw
Garry B. Trudeau
David J. Weatherall
Sol M. Linowitz

❧

ADDRESS

Sol M. Linowitz
Former Ambassador to The Organization of American States, and to The Middle East Peace Negotiations

❧

THE FESTIVAL BRASS AND
THE JOHNS HOPKINS MEDICAL INSTITUTIONS CHORUS

Ellery B. Woodworth, Conducting

Give Ear Ye Children
To My Law

William Tansur
(1700-1783)

❧

Conferring of Degrees on Candidates

BACHELORS OF ARTS

Presented by

Lloyd Armstrong, Jr.
Dean, School of Arts and Sciences

❧ ❧ ❧

BACHELORS OF SCIENCE IN BIOMEDICAL ENGINEERING
BACHELORS OF SCIENCE IN CHEMICAL ENGINEERING
BACHELORS OF SCIENCE IN CIVIL ENGINEERING
BACHELORS OF SCIENCE IN COMPUTER SCIENCE
BACHELORS OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING
BACHELORS OF SCIENCE IN ENGINEERING MECHANICS
BACHELORS OF SCIENCE IN MATERIALS SCIENCE AND ENGINEERING
BACHELORS OF SCIENCE IN MATHEMATICAL SCIENCES
BACHELORS OF ARTS
BACHELORS OF CIVIL ENGINEERING
BACHELORS OF ELECTRICAL ENGINEERING
BACHELORS OF MECHANICAL ENGINEERING

Presented by

V. David VandeLinde
Dean, G.W.C. Whiting School of Engineering

❧ ❧ ❧

PERFORMER'S CERTIFICATES
BACHELORS OF MUSIC

Presented by

Robert O. Pierce
Director, Peabody Conservatory of Music

❧ ❧ ❧

BACHELORS OF SCIENCE

Presented by

Carol J. Gray
Dean, School of Nursing

❧ ❧ ❧

ASSOCIATES OF SCIENCE
BACHELORS OF SCIENCE

Presented by

Stanley C. Gabor
Dean, School of Continuing Studies

❧ ❧ ❧

MASTERS OF SCIENCE
MASTERS OF LIBERAL ARTS
MASTERS OF ARTS IN TEACHING
MASTERS OF ADMINISTRATIVE SCIENCE
CERTIFICATES OF ADVANCED STUDY

Presented by

Stanley C. Gabor
Dean, School of Continuing Studies

❧ ❧ ❧

MASTERS OF SCIENCE

Presented by

Carol J. Gray
Dean, School of Nursing

❧ ❧ ❧

GRADUATE PERFORMANCE DIPLOMAS
MASTERS OF MUSIC
ARTIST DIPLOMAS

Presented by

Robert O. Pierce
Director, Peabody Conservatory of Music

MASTERS OF SCIENCE
MASTERS OF HEALTH SCIENCE
MASTERS OF PUBLIC HEALTH

Presented by

Donald A. Henderson
Dean, School of Hygiene and Public Health

❧ ❧ ❧

MASTERS OF INTERNATIONAL PUBLIC POLICY
MASTERS OF ARTS IN INTERNATIONAL AFFAIRS
MASTERS OF ARTS

Presented by

George R. Packard
Dean, Paul H. Nitze School of Advanced International Studies

❧ ❧ ❧

MASTERS OF ARTS

Presented by

Richard S. Ross
Dean, School of Medicine

❧ ❧ ❧

MASTERS OF CHEMICAL ENGINEERING
MASTERS OF CIVIL ENGINEERING
MASTERS OF ENVIRONMENTAL ENGINEERING
MASTERS OF MATERIALS SCIENCE AND ENGINEERING
MASTERS OF SCIENCE
MASTERS OF SCIENCE IN ENGINEERING
MASTERS OF ARTS

Presented by

V. David VandeLinde
Dean, G.W.C. Whiting School of Engineering

❧ ❧ ❧

MASTERS OF ARTS

Presented by

Lloyd Armstrong, Jr.
Dean, School of Arts and Sciences

❧ ❧ ❧

DOCTORS OF EDUCATION

Presented by

Stanley C. Gabor
Dean, School of Continuing Studies

❧ ❧ ❧

DOCTORS OF MUSICAL ARTS

Presented by

Robert O. Pierce
Director, Peabody Conservatory of Music

❧ ❧ ❧

DOCTORS OF SCIENCE
DOCTORS OF PUBLIC HEALTH
DOCTORS OF PHILOSOPHY

Presented by

Donald A. Henderson
Dean, School of Hygiene and Public Health

❧ ❧ ❧

DOCTORS OF PHILOSOPHY

Presented by

George R. Packard
Dean, Paul H. Nitze School of Advanced International Studies

❧ ❧ ❧

DOCTORS OF MEDICINE
DOCTORS OF PHILOSOPHY

Presented by

Richard S. Ross
Dean, School of Medicine

❧ ❧ ❧

DOCTORS OF PHILOSOPHY

Presented by

V. David VandeLinde
Dean, G.W.C. Whiting School of Engineering

❧ ❧ ❧

DOCTORS OF PHILOSOPHY

Presented by

Lloyd Armstrong, Jr.
Dean, School of Arts and Sciences

❧ ❧ ❧

STATEMENT TO THE GRADUATES

Steven Muller
President of the University

❧

BENEDICTION

Clyde R. Shallenberger
Director
The Chaplaincy Service
The Johns Hopkins Hospital

❧

RECESSIONAL

March, from "Athalie"

Felix Mendelssohn
(1809-1847)

POSTLUDE

Washington Post March

John Philip Sousa
(1854-1932)

The audience is requested to remain standing after the Benediction until the principals, officials, members of the faculties, and the graduates have left the area.

Citation Read by
Milton Cummings
in Presenting
Douglass Cater
for the Degree of Doctor of Humane Letters

May 24, 1990

College president, writer, and public servant, you have advanced the cause of the liberal arts and of higher education with your unsurpassed sense of mission, your keen appreciation for the rare and irreplaceable, and your dedication to humane values.

You achieved success early in your first career, journalism, serving as Washington editor and national affairs editor for the *Reporter Magazine.* Later, you were to become vice-chairman of England's oldest weekly newspaper, *The Observer.* As a journalist, you were recognized with major distinctions, including the Front Page Award and the George Polk Memorial Award.

Beginning in 1964, you performed a signal service to the advancement of education in this nation as special assistant to President Lyndon B. Johnson. You helped in this capacity to launch the Higher Education Act, the Elementary and Secondary Education Act, and the International Education Act, as well as the Teachers Corps and the Public Broadcasting Commission. Later you were associated as lecturer and professor with several of our most distinguished universities, and you became Senior Fellow, Founding Fellow, and Trustee of the Aspen Institute for Humanistic Studies.

It was admirable and fitting that in 1982, the nation's tenth oldest chartered college, Washington College in Chestertown, should have sought you out as president. Your achievements in helping the college to flourish as perhaps never before are well known and furnish convincing evidence of your superb leadership and of this society's enduring need for the independent liberal arts institution.

Douglass Cater, in recognition of your lasting contributions nationally to the promotion of education, and in appreciation of your consistent championing of independent higher education within this state and nation, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by
V. David VandeLinde
in Presenting
Willard Hackerman
for the Degree of Doctor of Humane Letters

May 24, 1990

Master builder, alumnus, and long-time friend and supporter of this institution, your creative contributions to the construction industry have helped change the face of the state and nation, while your generosity has enriched and preserved valuable elements of Baltimore's cultural heritage.

You joined the Whiting-Turner Contracting Company in 1938 as a 19-year-old engineering graduate of Johns Hopkins. Since 1955, you have been its president, and during this time it has become the largest construction firm in Maryland.

Under your leadership, Whiting-Turner has built some of the area's most distinctive landmarks, including the second Chesapeake Bay Bridge, nine sections of Interstate Route 95, office buildings, shopping malls, pioneering turnkey housing for the elderly in Washington, D.C., Harborplace in Baltimore, the National Aquarium, and the Meyerhoff Symphony Hall. The firm's many major construction projects for this university include the Space Telescope Science Institute, the Montgomery County Center, and the just-dedicated Bloomberg Center for Physics and Astronomy, the largest building on the Homewood campus.

You played a key role in saving the Baltimore Symphony Orchestra during a crippling labor dispute; bought and gave to the city the historic Mount Vernon mansion known as the Thomas-Jencks-Gladding House, now called the Hackerman House; and aided such other Baltimore institutions as the Walters Art Gallery, Peale Museum, Peabody Conservatory, and Maryland Historical Society. Your contributions to Johns Hopkins have included the establishment of chairs at both the University and Hospital, membership on the Board of Trustees, establishment of the Hackerman-Patz House for Oncology Patients, and chairmanship of the ad hoc committee which oversaw the opening of the G.W.C. Whiting School of Engineering.

Willard Hackerman, in recognition of your lifetime of distinguished service and extraordinary generosity to The Johns Hopkins Institutions and to our community, The Johns Hopkins University gratefully confers upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by
George Packard
in Presenting
Claudia Taylor Johnson
for the Degree of Doctor of Humane Letters

May 24, 1990

Thirty-second First Lady of the United States, your life has symbolized public service and dedication to humanitarian causes of the highest order.

Known since infancy to family and friends as Lady Bird, you graduated from the University of Texas in 1934 and the following year married Lyndon Baines Johnson, then executive secretary to a Texas Congressman. You played a key role in your husband's career through twenty-four years in Congress. As wife of the Vice President and later President, you traveled with him to more than thirty countries, representing the United States, while fulfilling with distinctive graciousness the myriad political and social engagements that prominence in public life required of you.

Other duties, pursued with equal devotion, arose from your own deep concern for human, cultural, and environmental matters. During your husband's presidency, you were an active member of the Society for a More Beautiful National Capital and a board member of the American Conservation

Association. You have also championed the work of the National Park Service and have long been a Trustee of the National Geographic Society. In 1982, you created the National Wildflower Research Center near Austin, Texas. Today, you head a highly successful broadcasting operation in Austin, but much of your time and energy goes in support of the activities of the Lyndon B. Johnson Presidential Library and the Lyndon B. Johnson School of Public Affairs on the campus of the University of Texas at Austin.

For these and other achievements, you have received the Eleanor Roosevelt Award of the Women's National Press Club, the B'nai B'rith Humanitarian Award, the Medal of Freedom, presented by President Gerald Ford in 1977, and the Congressional Gold Medal in 1988.

Claudia Taylor Johnson, in recognition of your extraordinary contributions to the cultural and aesthetic well-being of our country, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by
Lloyd Armstrong
in Presenting
D. Mead Johnson
for the Degree of Doctor of Humane Letters

May 24, 1990

Business leader, philanthropist, and faithful alumnus and friend, you have reflected great credit upon this institution for more than fifty years, beginning in 1936, when you graduated from the School of Arts and Sciences with the Carlyle Barton Award as the outstanding member of your class. In that same year, you became first lieutenant in the Organized Reserve of the U.S. Army, serving until 1942, when you volunteered for the American Field Service and were attached to the British Eighth Army as a first lieutenant. During the course of service in Africa, India, and Burma, you received citations for valor from two foreign governments.

In 1955, you were elected president and chief executive officer of Mead Johnson & Company, becoming the youngest CEO at that time in the pharmaceutical industry. In 1967 your company merged with Bristol-Myers, and you became a member of the board, a member of the executive committee, and senior vice president of that company. For more than two decades, you have devoted your energies to D. Mead Johnson Enterprises, Inc., a venture capital company dedicated to the support of innovative ideas and products. You also serve as president of the D. Mead Johnson Foundation.

You have twice given substantial amounts of your time to Johns Hopkins as a member of the Board of Trustees, first from 1953 to 1955 and then from 1968 to 1976. You served as vice chairman of the Hopkins Hundreds Campaign from 1973 to 1976, and the D. Mead Johnson Chair in Chemistry reflects your extraordinary generosity as well as your abiding interest in natural and medical sciences. You have also served as a wise and trusted friend of two presidents of this university.

D. Mead Johnson, in grateful recognition of your generous gifts of time, service, and support, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by
Robert Heyssel
in Presenting
Robert H. Levi
for the Degree of Doctor of Humane Letters

May 24, 1990

Peerless leader in the Baltimore business community, champion of your native city, philanthropist, and alumnus and devoted friend, your life and work have vastly enriched the quality of life for the people of Baltimore and beyond.

Following service in the Coast Guard during World War II, you headed your family's clothing manufacturing business. You then joined the Hecht Company, where your vision made the firm a leader in the postwar expansion of retailing into suburban areas. You eventually became president and led a merger with The May Company Department Stores to create the largest retailing operation in the region. In 1974, you retired from that brilliant business career and joined Mercantile-Safe Deposit and Trust Company, from which you retired as chairman of the executive committee in 1985.

You and Ryda, your wife of more than 50 years, have given generously of your time and talent toward the revitalization of the cities of Baltimore and Washington, serving on numerous commissions, committees, and boards dealing with preservation and community redevelopment. A nearby example of your generosity is the Ryda and Robert H. Levi Sculpture Garden at the Baltimore Museum of Art. Scarcely a single facet of life in this region has not benefited from your dedication and assistance, and from your shrewd and decisive intelligence.

Your service to Johns Hopkins has few parallels. You have served on the boards of both the University and Hospital. You have been vice chairman of the Johns Hopkins Fund, chairman of the Committee on Investments, chairman of the joint trustees meeting which launched the Hopkins Hundreds Campaign, and chairman of the Joint Trustee Development Committee which laid the groundwork for the Campaign for Johns Hopkins. The Levi Building of the biology complex is a lasting tribute to the extraordinary commitment you and Ryda have made to the University over the years. You have indeed been a Trustee *par excellence.*

Robert H. Levi, in recognition of your distinguished career and your unwavering commitment to this institution, and with deep gratitude and affection, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by
Edward Polochick
in Presenting
Robert Shaw
for the Degree of Doctor of Humane Letters

May 24, 1990

Conductor, musicologist, and artist, your name is synonymous with music in America, and your legacy includes transporting that joy to all corners of the globe.

A conductor of major orchestras in this country and abroad, your distinguished career began in New York where you prepared choruses for such renowned conductors as Arturo Toscanini and Bruno Walter. In 1949, you formed the famed Robert Shaw Chorale and Orchestra which, over the next seventeen years, was sent as this government's musical emissary to thirty countries in Europe, the Middle East, and Latin America.

Your contributions as music director of the San Diego Symphony Orchestra and associate conductor of the Cleveland Orchestra, where you worked with George Szell for ten years, led you to the post of music director for the Atlanta Symphony Orchestra from 1967 to 1988. Under your baton this became one of the great American orchestras.

As recently as the summer of 1988, you inaugurated a music festival in France that enchanted international audiences and critics alike. Your career has been studded with awards, including twelve Grammys and other top recording prizes, the first Guggenheim Fellowship awarded to a conductor, and the Gold Baton Award of the American Symphony Orchestra League.

Robert Shaw, in appreciation of your unparalleled musical artistry and in recognition of your unwavering devotion to our country's musical heritage, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by
Richard Macksey
in Presenting
Garry Trudeau
for the Degree of Doctor of Humane Letters

May 24, 1990

Humorist, artist, and social critic, your remarkable talent for political satire has thrilled millions of Americans and jostled us out of our complacency. How skillfully you depict the foolhardiness that characterizes much of public policy and public life, and how eagerly we follow you day by day. Like another champion, you can float like a butterfly and sting like a bee, and as you puncture sham you puncture our consciousness and prompt us to think.

A graduate of Yale University, where you received B.A. and M.F.A. degrees, you launched your inimitable *Doonesbury* comic strip in 1970. Five years later you won the first Pulitzer Prize ever awarded a comic strip artist.

Today *Doonesbury* appears in more than 1,180 newspapers in the United States and abroad. Your durable characters have even starred in a network television special as well as in a Broadway musical. From 1984 to 1988, your stinging political review, *Rap Master Ronnie*, delighted audiences from New York to Washington, D.C.

Garry Trudeau, in recognition of your modern contributions to the venerable art of social and political satire, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by
Victor McKusick
in Presenting
Sir David Weatherall
for the Degree of Doctor of Humane Letters

May 24, 1990

Premier clinician and innovative researcher, you have been a leader in the application of what you have termed "the new genetics" to clinical medicine. You have elucidated the molecular basis of thalassemia, a hereditary form of anemia which is found frequently in populations bordering the Mediterranean and in Southeast Asia.

You came to Johns Hopkins for the first time as a research fellow in 1960, having just completed service in British military hospitals in Southeast Asia. There, you had become aware of the high frequency of thalassemia and chose to study hemoglobin and the abnormality present in thalassemia. You developed innovative methods of investigating the problem through the so-called messenger RNA. These methods were crucial in uncovering the nature of the basic defect and in working out ways of distinguishing the several forms of the disease.

Returning to England in 1965, you carried on your work as professor of hematology at the University of Liverpool. In 1974, you were appointed to the distinguished Nuffield Professorship of Clinical Medicine at the University of Oxford. There you more recently developed an outstanding research organization, the Institute of Molecular Medicine, of which you are honorary director.

You have provided distinguished service as a consultant to the World Health Organization and as a Trustee of the Wellcome Trust. In 1977, you became Fellow of the Royal Society of London and, in 1987, were knighted for your services to medicine. Last month, you were elected a foreign associate of the National Academy of Sciences.

Sir David Weatherall, in recognition of your extraordinary contributions to medicine, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by
Sara Castro-Klarén
in Presenting
Sol M. Linowitz
for the Degree of Doctor of Humane Letters

May 24, 1990

Diplomat, lawyer, and business executive, you have pursued not just one but three careers, each with a record of achievement that alone would have satisfied anyone less accomplished and energetic than yourself.

In your chosen field of jurisprudence, you were a *summa cum laude* graduate of Cornell Law School, a lawyer in private practice in Rochester, New York, and, beginning in 1969, a partner, and now senior counsel, for the international law firm of Coudert Brothers. From 1955 to 1966, you pursued simultaneously an enormously successful business career that entailed service as vice president and general counsel, chairman of the executive committee, and chairman of the board of the Xerox Corporation.

Always interested and involved in humane and civic activities, you answered the call to public service from President Lyndon B. Johnson in 1966, when you were named U.S. Ambassador to the Organization of American States. In 1977 and 1978, you served another President, Jimmy Carter, as co-negotiator of the Panama Canal Treaties. From 1978 to 1979, you served as chairman of the Presidential Commission on World Hunger. And from 1979 to 1981, you served as the President's Personal Representative to the Middle East Negotiations.

Your hallmarks have been high intelligence, an unwavering sense of purpose in the advancement of international understanding, and a consistent sense of fair play. The Johns Hopkins University is one of an impressive number of organizations that have benefited from your wise counsel as Trustee. You have graced your manifold service with exceptional charm and wit.

Sol M. Linowitz, for your remarkable contributions to the cause of world peace no less than for your unstinting service on behalf of this institution, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

The University Mace

The University Mace carried by the Chief Marshal, Dr. Owen M. Phillips, was first used at the 1954 Commemoration Day Exercises. Eight symbols are hand wrought in sterling silver on an ebony staff. The symbols represent our cultural development from ancient times, through the Middle Ages and the Renaissance, to the modern era.

The Presidential Insignia

University President Steven Muller is wearing the Presidential Insignia signifying the authority vested in the President by the Board of Trustees. It is a chain of sterling silver links worn around the neck. Portraits of each of the ten Johns Hopkins University Presidents are engraved on the faces of ten of the links. On the reverse are engraved the names and dates of office of each President. Ten blank links for future use are included. The University Seal completes the design.

Academic Dress

The custom of wearing academic dress stems from the Middle Ages, when scholars were also clerics and wore the costume of their monastic order. The hood was originally a cowl attached to the gown, which could be slipped over the head for warmth. The cap was originally round, but has changed to the varieties that we see today.

The gown varies for the respective degrees. The Bachelor's gown is worn closed and can be distinguished by its long, pointed sleeves. The Master's gown is designed to be open with the arms worn through the slits in the elbows of the sleeves. The Doctor's gown, also worn open, has full, bell-shaped sleeves with three horizontal bars stitched across the upper arm. There is a velvet panel draped around the neck and stitched down the front edges. This velvet trimming may be either black or the same color as the velvet border of the hood.

The hood also varies for the respective degrees. The Bachelor's and Master's hoods are of the same design, pointed at the base. The Bachelor's hood is three feet long; the Master's hood is three and one half feet long. The Doctor's hood is four feet long, of fuller shape and rounded at the base.

The hood is bordered with velvet, the color of which indicates the field of study in which the degree was earned:

Dark blue - Philosophy
Light blue - Education
Green - Medicine
Salmon pink - Public Health
Orange - Engineering
Gold-yellow - Science
White - Arts and Letters
Pink - Music
Purple - Laws
Apricot - Nursing

The silk lining of the hood represents the institution which granted the degree. If more than one degree is held, the gown and hood of the higher or highest degree is worn. The Johns Hopkins University has adopted an alternative costume to be used by all holding Johns Hopkins doctoral degrees, both earned and honorary. The costume consists of a gold robe with front and side panels in sable velvet and a six-sided Dutch academic cap with gold sweatband and tassel. The linings seen in today's academic procession may include:

Black, old gold chevron-Johns Hopkins
Light blue, white chevron-Columbia
Dark blue-Yale
Blue with white chevron-Duke
Dark blue, two orange chevrons-Illinois
Light blue, two white chevrons-North Carolina
Old gold, maroon chevron-Minnesota
Old gold-Iowa
Gold, blue chevron-University of California at Berkeley
Gold-Virginia
Purple, gold chevron-Northwestern
Carnegie Tartan - Carnegie-Mellon
Purple-New York University
Bright red-Wisconsin
Plum, with scarlet-London
Maroon-Chicago
Crimson-Harvard
Carnelian, two white chevrons-Cornell
Cardinal-Stanford
Red, tri-Chevron in center-Heidelberg
Dandelion yellow-Michigan
Maize, azure blue chevron-Sorbonne
Yellow and white-Rochester

The University Motto

Veritas vos liberabit.

The truth shall make you free.

-St. John 8:32

Awards

In the Schools of Arts and Sciences, Engineering and Medicine

Louis Sudler Prize in the Arts
for Excellence in the Creative Arts
Awarded to Jeffrey Seth Blitz

In the Schools of Arts and Sciences and Engineering

Roberto R. Arellano Award
for outstanding achievement in the junior year by a Writing Seminars major
Awarded to Daniel James Grossman

Louis Azrael Fellowship in Communications
for demonstrated excellence in a field of mass communications
Awarded to Thomas H. Kern, Nancy E. Schnall, Dyanna Lea Phillips, Jeffrey Scott Pruzan, Mira Vayda, Mark Friedman

Biomedical Engineering Award
for outstanding effort in research in Biomedical Engineering
Awarded to Michele Royce (undergraduate)
Marc Cohen (master's cand.)
Rose Province (master's cand.)

Alexander Butler Prize
for the best research paper by a first year graduate student in History
Awarded to Richard L. Keyser

Mary Farrell Camerer Award
for outstanding achievement in the junior year by a Writing Seminars major
Awarded to Craig Jorg Bernardini

Eugenio and Patricia Castillo Award
to the best first or second year graduate student in Economics
Awarded to Shingi Yamashige

Chemical Engineering Undergraduate Research Award
for demonstrated contributions to research in Chemical Engineering
Awarded to Michael Lewis Greenfield

Civil Engineering Award
for outstanding achievement by a senior in Civil Engineering
Co-Awarded to James P. Gray
Rebecca A. Mattress

Computer Science Award
for outstanding achievement by an undergraduate in Computer Science
Awarded to Michael Allen Facello
Phoebe Josephine Sengers

G. Stanley Hall Prize
for outstanding achievement by an undergraduate in Psychology
Awarded to Sivanie Sharir

The Max Hochschild Fund
The prize is awarded annually to the undergraduate student in Business and Industrial Management who has shown the greatest promise and proficiency in this field and is
Awarded to Wan J. Kim

The Jacob H. Hollander Prize
for excellence in writing by a Writing Seminars junior
Awarded to David Charles Dudley

The 3 Arts Club of Homeland Award
for outstanding achievement in the Writing Seminars
Awarded to Kimberly Ann Rusin

AT&T Information Systems - William H. Huggins Award
for outstanding service and academic achievement by a senior and junior in Electrical and Computer Engineering
Awarded to William Krause (Senior)
Thomas Staubach Sosnowski (junior)

Adolf Katzenellenbogen Memorial Prize
for outstanding work in Art History
Awarded to Cristiana Filippini
Daniel Howard Weiss

Donald E. Kerr Memorial Medal
to the outstanding undergraduate major in Physics and Astronomy
Jointly Awarded to Daniel Richard Durkin
Christopher Frank Kolda

Arthur Kouguell Prize
to the outstanding undergraduate major in History
Awarded to Philip Daileader
Honorable Mention to Jennifer Levy

Martin G. Larrabee Award
for meritorious undergraduate research in the Thomas C. Jenkins Department of Biophysics
Awarded to Ruth Klautky
Larry Zeitlin

Ernest M. Marks Award
in recognition of excellence in instruction and research in Chemistry
Awarded to Susan Tsay, Todd Graybill

Mathematical Sciences Achievement Award
for outstanding achievement by an undergraduate
Awarded to Debra Lee Cook

The Mathematics Prize
for excellence as an undergraduate major in Mathematics
Awarded to David I. Kass

The William D. McElroy Award
for meritorious research conducted by an undergraduate in the biological sciences
Awarded to Todd S. Crocenzi
Honorable Mention to Maureen Fay

Eliezer Naddor Postdoctoral Fellowship
to a graduating Ph.D. student in Mathematical Sciences with an outstanding record in research and superior promise for an academic career in research and graduate teaching
1989-90 Fellow: Roy Mathias
1990-91 Fellow: Martin J. Appel

Robert B. Pond, Sr. Achievement Award
to the graduating senior in Materials Science and Engineering who best exemplifies Professor Pond's commitment to scholarly and humane values
Awarded to Gregory W. Iglesia

President's Commendation for Achievement in the Arts
for outstanding contributions to the Arts in the Johns Hopkins Community by graduating seniors
Awarded to John Tilmon Tennison
Michael Lewis Greenfield

The Curt P. Richter Award in Behavioral Biology
in recognition of outstanding achievement in the Behavioral Biology Program
Awarded to Joe Shiber, Matthew Mayr
Melissa Selke

Sarah & Adolph Roseman Achievement Award
in recognition of outstanding accomplishment in Chemistry
Awarded to Sarah Morse
Deborah Sauder

Roulston Prize
for outstanding achievement and excellence in German
Awarded to Anette Schwarz

Julian C. Stanley Award
for the undergraduate psychology major who most closely approximates Dr. Stanley's personal and professional standards of excellence
Awarded to Ilene Jacobs

Julius Turner Prize
for the most distinguished senior thesis in Political Science
Awarded to Christin Campbell

John Boswell Whitehead Award
for outstanding achievements by an undergraduate in Electrical and Computer Engineering
Awarded to David H. Hsu

Loy Wilkinson Award
for a demonstrated record of academic excellence, leadership,and service in Chemical Engineering
Awarded to Michael Lewis Greenfield

In the Peabody Conservatory of Music

The Clara Ascherfeld Prize in Accompanying
Awarded to Kerri Hyatt

The Baltimore Music Club Award in Accompanying
Awarded to Monica Frey

The Martha and William Bill Prize in Clarinet
Awarded to Hilary Vrooman

The P. Bruce Blair Award in Composition
Awarded to Richard Dudas

The George Castelle Prize in Voice (Female)
Awarded to Carolyn Brown

The Samuel Cohen Memorial Prize in Violin
Awarded to Rachel Jordan

The Pauline Favin Memorial Award in Piano
Awarded to Jacqueline Faiman

The Lillian Gutman Prize in Piano
Awarded to Sheri Segal

The Josef Kaspar Prize in Violin
Awarded to Odette Burger

The Irving Lowens Memorial Prize in Criticism
Awarded to Willa Conrad

The Lillian Howard Mann Prize in Voice
Awarded to Darci Bultema

The Maryland State Teacher's Association Prize
Awarded to Claudia Markham

The Harold Randolph Prize in Performance
Awarded to Dominic Sargent

The Randolph S. Rothschild Award in Composition
Awarded to E.C. McGregor Boyle

The Zaidee T. Thomas Prize (Voice Student)
Awarded to Kelli Young

The Zaidee T. Thomas Prize (Instrumental Student)
Awarded to Matthew McCoy

The Melissa Tiller Memorial Prize in Violin
Awarded to Matthew Pierce

The J.C. Van Hulsteyn Prize in Violin
Awarded to Hou Lei

The Annie Wentz Prize in Voice
Awarded to Robert Cantrell

In the School of Nursing

Robert G. Merrick Award
to a student demonstrating outstanding leadership in the field of nursing
Awarded to Monica G. Laws

Research Award
to a student demonstrating intellectual curiosity and creativity in nursing research
Awarded to Stepanie C. Meredith, R.N.

Mary and Grainger Marburg Award
in recognition of a student who consistently exhibits outstanding clinical nursing expertise
Awarded to Michelle A. Grover

Academic Excellence Award
to a student whose academic performance has been judged to be outstanding
Awarded to Yvonne M. Newburg

Eleanor Wade Caster Award
to a student who most successfully combines commitment to the nursing profession with sensitivity to one's fellow man
Awarded to Amy E. Margolis

The Church Home and Hospital Nursing Alumnae Award
recognizes a student who best exemplifies a humanistic approachto nursing while integrating the art, science and the spirit of nursing
Awarded to Ruth E. Flaks

The Johns Hopkins Nurses' Alumni Association Award
recognizes a student whose leadership ability is combined with clinical competence and an inquiring mind
Awarded to Eric W. Smith

Sinai Nurses' Alumnae Association of Sinai Hospital, Inc.
recognizes a student who exhibits enthusiasm, compassion and apositive approach to problem solving in nursing
Awarded to Corin D. Bomberger

In the School of Continuing Studies

Delta Sigma Pi Scholarship Key
in the Division of Administration and Business for the highest average in the undergraduate programs
Awarded to Mary Svec Detzel

Edward J. Stegman, C.P.A., Memorial Award
in the Division of Administration and Business for excellence in the study of Administrative Science at the graduate level
Awarded to Jennifer S. Ahrendt
Robert Rowland Bair
Michael Joseph Begley
Karen McCeney Belton
Connie Elaine Brininger
C. David Brooks
Edward Chalfin
Michael S. Cohen
Buel Yolanda Davis
Liselotte Hollister Davis
Beverly A. Donegan
Eileen M. Eckenrode
Carol Anne Evans
Judd William Forbes
April Ann Gagnon
Gerald Alan Gallion
Scott Joseph Glover
Michael W. Goetz
Carla Lehr Grygiel
Steven Haas
Antoinette Kennedy Holland
Nickolas Steve Kaleyias
Bruce Joseph Kilkowski
Charles T. Langmead
Suzanne M. Maitland
Jeffery Eugene Marshall
Cynthia Ross McCloskey
Kevin Charles McGonigle
David Brian Meurer
Brian Scott O'Banion
Daniel Paul Reuben
Doreen Anne Desouza Riggin
Mary Elizabeth Scheve
Kathy Jean Smith
Michael E. Stern
Elizabeth McLendon Welch
John Randall Yeager, Jr.

Wall Street Journal Student Achievement Award
in the Division of Administration and Business for outstanding scholarship in the undergraduate programs and exceptional promise of future success
Awarded to Toni Patricia Robinson

In the School of Medicine

Henry Strong Denison Scholarship
The Henry Strong Denison Fund for Medical Research in memory of Henry Strong Denison, M.D., 1908, is used for the specific purpose of aiding in the training for research of young people deemed by the Medical Faculty to be especially gifted for a career in medical investigation.
Awarded to Todd Michael Koelling - 1987-88
Mary-Claire Roghmann - 1987-88
Scott Alan Steinmetz - 1987-88
Ilan Shor Wittstein - 1989-90

Sandoz Award
This award provided by the Sandoz Pharmaceutical Company recognizes excellence in the field of Pharmacology.
Awarded to Curtis Landon Ruegg - 1989-90

Laurel and Clarence H. Koennecke Award
The Laurel and Clarence H. Koennecke Award was established to recognize those students showing most promise in the surgical field of Gynecology.
Awarded to Erica Joy Leventhal - 1989-90

The Franklin Paine Mall Scholarship in Anatomy
The Franklin Paine Mall Prize in Anatomy established by Dr. Miley B. Weston, an alumnus of the School of Medicine, is given in the name of Franklin Paine Mall, the first professor of Anatomy in the School of Medicine.
Awarded to Corinne Vivian Basch - 1986-87
John Henry Sinard - 1982-83
Corey Lee Teigen - 1986-87

The Paul Ehrlich Awards
The Paul Ehrlich Awards were established to honor Dr. Paul Ehrlich with funding originally granted by Dr. Emmanuel Libman. The awards, which recognize student research contributions, are presented each year at Young Investigators' Day.

The Paul Ehrlich Award in Clinical Science Investigation
Awarded to James William Harbour - 1988-89

The Paul Ehrlich Graduate Student Award
Awarded to Klaus H. Kästner - 1989-90

The Paul Ehrlich Research Award
Awarded to James H. Shero - 1989-90
John Henry Sinard - 1989-90

The David Israel Macht Memorial Prize
The David Israel Macht Memorial Prize was established in 1983 by the family of Dr. Macht to commemorate the centenary of his birth. Dr. Macht was a member of the faculty of the Departments of Pharmacology and Medicine in the early part of this century and was a pioneer investigator in the field of opiate alkaloids.
The prize is intended to recognize excellence in investigation by a student in the School of Medicine.
Awarded to Eric Reese Fearon - 1989-90

The William L. Strauss, Jr. Scholarship Award
This fund was established in 1982 by an alumnus to honor Dr. Strauss, former Associate Professor of Anatomy and Acting Director of the Department of Anatomy. The donor specified that the award be made to a student with strong interest in basic research, people, and the history of medicine.
Awarded to John Henry Sinard

In the School of Hygiene and Public Health

Alumni Association Scholarship Award
to students of outstanding promise
Awarded in 1985 to Ruth Kettler Finkelstein

Frederik B. Bang Award
for an outstanding research idea in the area of pathobiology
Awarded in 1988 to Show-Li Chen
Awarded in 1989 to Thomas Alan Neubert

Erwin Shayne Benjamin Award
for outstanding student research in the field of congenital birth defects and/or childhood disabilities
Awarded in 1989 to Ping Yang

Ruth B. Freeman Award
to a graduating doctoral nurse to recognize academic performance and an outstanding thesis
Awarded to Lisa L. Paine

Paul A. Harper Award
to degree candidates in the Department of Population Dynamics to recognize both achievement and promise of contributions to the field of population
Awarded in 1989 to Ruth Ellen Levine

John C. Hume Doctoral Award
to a graduate for significant research in the Department of Health Policy and Management
Awarded to Jack Ellsworth Scott

John C. Hume Masters of Public Health Award
to a graduate for academic excellence and professional promise
Awarded to Joel Emanuel Gallant
Jacqueline Au McPherson

Cornelius W. Krusé Award
for scholarly excellence in Environmental Health Sciences
Awarded to K. Gregory Moore

Harry D. Kruse Award
for outstanding doctoral research in the field of nutrition and public health
Awarded in 1988 to Katherine Schuyler Guptill

Mary B. Meyer Memorial Award
to students in the Department of Epidemiology for academic excellence
Awarded in 1989 to Catherine Bishop Johannes
Awarded in 1988 to Ping Yang

In the Paul H. Nitze School of Advanced International Studies

William C. Foster Award
to a second year student for sound scholarship and a record ofleadership and distinguished service to SAIS exemplary of the high qualities of integrity, loyalty and ability admired in Mr. Foster
Awarded to Jonathan T. Isham, Jr.
Karin L. Kizer

Christian A. Herter Fellowship
to the member of the second year class with the most outstanding record during the first year
Awarded to Alan B. Sternstein

Honor Societies

Phi Beta Kappa

From the Junior Class in the School of Arts and Sciences

Vincent Paul Briscuso
Jonathan Allan Clark
Matthew Edward Cunningham
Michael Bradley Datto
Paul Alexander Kramer
David Edward Liss
Alison Michele Samitt
David Michael Shaw
Martin B. Stemmler
Thomas Hyunsop Woo

From the Senior Class in the School of Arts and Sciences Elected in 1988-89

Murat Zeki Akalin
Jennifer Lynn Barsema
Daniel Richard Durkin
Jay C. Erickson
Christopher Frank Kolda
Lori Ann Snyder
David Maerten Westphal
Eric John Wolgemuth

Elected in 1989-90

Christopher Michael Becker
David Mark Blass
Peter Andrew Blitstein
Jeffrey Seth Blitz
William Beard Brinckerhoff
Sheldon Chen
Stephanie Yu-Hue Chiu
Wei Chu
Noam Aryeh Cohen
Todd Shane Crocenzi
Christopher Lee Culp
Philip Henry Daileader
Thomas Darren Devine
Steven Michael Dudek
David Charles C. Dudley
Brett Wayne Engbrecht
Michael Lawrence Falk
Russell Marc Fromkin
John Patrick Higgins
Michael Bradley Holmes
Harry Isaac Johnson III
Ilene Lisa Jacobs
David Ira Kass
Kelly Ann Kieffer
Wan Joo Kim
Li Kuo Kong
Richard C. Kuo
Tamsen Douglass Love
Matthew Thomas Mayr
Nancy Louise McElwain
Niteen Milak
Linda Susan Mirsky
Donald James Munro
Vincent Presti
Erica Sonya Roth
Marjorie Gail Rotstein
Ronald Rabago SanJuan
Melissa Dawn Selke
Rinoo Vasant Shah
Sivanie Lianne Sharir
Chi Ching Shum
Steven Anthony Sirotic
Patricia Marie Steigerwald
Kelly Dean Stone
Terrance Michael Swords
Manora Szeto
Scott Joseph Tarantino
Eric Eng Walk
Laurence Patrick Young
Peter Eric Zage
Daniela Zane

From the Doctor of Philosophy Candidates in the School of Arts and Sciences

Jeffrey Joseph Hayes

From the School of Medicine

James William Harbour

Corey Lee Teigen

From the School of Hygiene and Public Health

Hassan Hussein Zaky

From the Paul H. Nitze School of Advanced International Studies

Robert George Angevine

Tau Beta Pi

National Engineering Honor Society

From the Junior Class in the G.W.C. Whiting School of Engineering

Harry Bowman
Subrat Biswal
Robin Blasberg
Alberto Cairo
James Chang
Steve Chong
David Chung
Richard Dause
Edward Davis
Choon Kiat Goh
Gary Hsich
Kristie Kantowski
Peter Kim
Bennett Scott May
Joseph Neff
Eve Parojcic
Cynthia Quan
Glen Sabin
Robert P. Silverman

From the Senior Class in the G.W.C. Whiting School of Engineering
Elected in 1988-89

Sanjay Kumar Aggarwal
Elissa Eleanor Carapella
Bassil I. Dahiyat
Michael Allen Facello
Michael Lewis Greenfield
Eric Bruce Haura
David H. Hsu
Howard P. Hui
John Daniel Joyce
Yookyung Kim
William Joseph Krause
Neil Lofgren
Jackie Morris
Ty Casey Mullen
Robert Andrew Nichols
Michele Jeanette Royce
Phoebe Josephine Sengers
M. Shah
Daniel Sisbarro
Volney L. Sheen
Saurabh Ranjan Sinha
John Michael Syptak
Howard Shann-Cherng Ying

Elected in 1989-90

Garrick Ahn
Douglas Matthew Arm
William Beard Brinckerhoff
Daryl Chen
John David Dengler
Nancy Elizabeth Giacobbe
James Patrick Gray
Howard Hampel
Danielle Marchione
Rebecca Ann Mattress
Theodore Charles Ondracek
Alistair B.M. Phillips
Joseph Alan Pratt
Thomas Sosnowski
Jennifer Marie Stephan
Bryan Christopher Still
Jonathan Carl Wagner
Catherine Mary Witt

From the Part-Time Engineering Program

Brian E. Applefeld
Donald James Fritzges, Sr.
Joyce Carroll Gipson
James E. Head III
John Raymond Jacobs
John D. Krohn
Ronald G. Lavicott
Scott Roycroft
Ronald Steven Tosh

Alpha Omega Alpha

Honor Medical Society

Corinne Vivian Basch
John Stephen Berestka
Jerry Joe Boley
Matthew Glaize Ewend
Eric Reese Fearon
Jeffrey Keith Ferguson
Erik Todd Goluboff
James William Harbour
Richard Yarborough Hinton
Gretchen Elizabeth McGuire
Scott Howard Sicherer
Allen Kent Sills, Jr.
John Henry Sinard
Corey Lee Teigen
Estil August Vance III
William Burt Veazey
Daniel Lee Watson
Victor Hua-Teh Wu
Donna Kristen Zeiter

Delta Omega

National Public Health Honor Society

Kokila Kashyap Agarwal
Peter Lowell Beilenson
Charlyn Black
James Frederick Blanchard
Brian Carl Breneman
Donna Jean Churyk
Robert William Davis
Susan Hankin Denise
Anita G. Eichler
Ruth Kettler Finkelstein
Mary Ellen Ford
Joel Emanuel Gallant
Nadine Flora Gasman-Zylbermann
Donald J. Glenn
Josep Maria Haro Abad
Nancy Flinn Hughart
Leslie Julian Hutchinson
Catherine Bishop Johannes
Lisa Ann Keefe
Jacqueline Au McPherson
Joan Marie Morton
LaRah Dohniee Payne
Gail Denise Pearson
Kathleen Marie Peterson
Bahjat Fouad Qaqish
Ronenn Roubenoff
Joan Lorraine Russ
James Sham
Barbara Helene Sohmer
John Duncan Tilden, Jr.
Hassan Hussein Zaky

Pi Kappa Lambda

National Music Honor Society

Melanie Halsell
Martin Jones
Daniel Lau
Matthew Rupcich
Sheri Segal
Jennifer Smith
Mickey Viershilling
Hilary Vrooman
Ya Hui Wang
Kitty Yang

Honors

Baccalaureate Candidates in the School of Arts and Sciences

Graduating with General Honors

Linda Chung Ahn
Uri Michael Ahn
Murat Zeki Akalin
Karen Elizabeth Baji
David Whitham Barker
Jennifer Lynn Barsema
Christopher Michael Becker
Philip Jay Bildner
David Mark Blass
Peter A. Blitstein
Jeffrey Seth Blitz
Brock Kenneth Bowman
William Beard Brinckerhoff
Kirsten Michele Brinkmann
Kevin Alan Burkett
Louis William Catalano
Sheldon Chen
Stephanie Yu-Hue Chiu
Wei Chu
Noam Aryeh Cohen
Todd Shane Crocenzi
Christopher Lee Culp
Philip Henry Daileader, Jr.
Akshay Vibhakar Dave
Thomas Darren Devine
Steven Michael Dudek
David Charles Conor Dudley
Daniel Richard Durkin
Brett Wayne Engbrecht
Amy Ruth Engel
Jonathan Jacob Engler
Jay Christopher Erickson
Michael Lawrence Falk
Russell Marc Fromkin
Gina Marie Gill
Heather Scott Green
John Patrick Higgins
Michael Bradley Holmes
John Hsu
Ilene Lisa Jacobs
Harry Isaac Johnson III
Samantha Joann Jory
Udai Shankar Kammula
Susan Sunha Kang
David Ira Kass
Ani Arousiag Ketabgian
Kelly Ann Kieffer
Wan Joo Kim
Christopher Frank Kolda
Li Kuo Kong
Gopal Chandru Kowdley
Eugene Young Lee
Jennifer Levy
Stacey Ann Levy
Les I-Lee Liu
Diana Lucia Logan
Tamsen Douglass Love
James Francis Marino
Julia Anne Matheson
Andrea Katherine Maynard
Matthew Thomas Mayr
Nancy L. McElwain
James Christopher Mendler
Niteen Milak
Linda Susan Mirsky
Husham Peter Mishu
Donald James Munro
Angela Sue Muras
Kathryn Elizabeth Ng
Eric John Ogden-Wolgemuth
Linda Marie Ogden-Wolgemuth
Vincent Joseph Presti III
Ganesh Venkataraman Raj
Lee Bryan Rauch
Erica Sonya Roth
Marjorie Gail Rotstein
Ronald Rabago San Juan
Richard Meyer Seldes
Melissa Dawn Selke
Rinoo Vasant Shah
Sivanie Lian Sharir
Chi Ching Shum
Isaac Maurice Silvera
Steven Anthony Sirotic
Lori Ann Snyder
Marc Steven Korman Spindelmann
Patricia Marie Steigerwald
Kelly Dean Stone
Sunil Gul Sujan
Linda Noell Svelling
Terrance Michael Swords
Lawrence Albert Szarka
Manora Szeto
Scott Joseph Tarantino
Mary Elizabeth Wade
Eric Eng Walk
David Maerten Westphal
Christopher Gerard Yap
Roger Ruey-Jye Yiu
Laurence Patrick Young
Peter Eric Zage
Daniela Zane
Laurence Mitchell Zeitlin

Baccalaureate Candidates in the G.W.C. Whiting School of Engineering

Graduating with General Honors

Sanjay Kumar Aggarwal
Douglas Matthew Arm
Elissa Eleanor Carapella
Bassil I. Dahiyat
John David Dengler
Michael Allen Facello
Nancy Elizabeth Giacobbe
James Patrick Gray
Michael Lewis Greenfield
Howard Hampel
Eric Bruce Haura
David H. Hsu
Howard P. Hui
John Daniel Joyce
Yookyung Kim
William Joseph Krause
Neil Lofgren
Rebecca Ann Mattress
Ty Casey Mullen
Robert Andrew Nichols
Theodore Charles Ondracek
Philippe Olivier-Marie Pouliquen
Phoebe Josephine Sengers
Volney L. Sheen
Saurabh Ranjan Sinha
Daniel Sisbarro
Jennifer Marie Stephan
Bryan Christopher Still
John Michael Syptak
Jonathan Carl Wagner
Howard Shann-Cherng Ying

Baccalaureate Candidates in the School of Arts and Sciences
Graduating with Departmental Honors

Linda Chung Ahn
Murat Zeki Akalin
Christopher Michael Becker
Rachel Elizabeth Beer
Peter A. Blitstein
Jeffrey Seth Blitz
Christopher A. Bonanos
Thomas Stephen Brennan
William Beard Brinckerhoff
Kevin Alan Burkett
Christin Campbell
Rachel West Carpenter
Nicole Kamakahukilan Caspers
Louis William Catalano
Stephanie Yu-Hue Chiu
Wei Chu
Christopher Lee Culp
Philip Henry Daileader, Jr
Colette Rose Desrochers
Paul Diamond
Steven Michael Dudek
David Charles Conor Dudley
Daniel Richard Durkin
Jonathan Jacob Engler
Michael Lawrence Falk
Michelle Rachel Feller
Darryl Edward Flaherty
Gregory Edmond Francis
Maureen Elizabeth Gale
Geraldine Marie Gan
Daniel J. Grossman
Charles C.L. Ho
Michael Bradley Holmes
Elisabeth Myra Inman
Jon Andrew Jacobson
Harry Isaac Johnson
Samantha Joann Jory
David Ira Kass
James Joseph Kielkopf
James Lawrence Talbot Knighton
Christopher Frank Kolda
Christina M. Kulich
Victoria Faith Lancelotta
Kimberly Elaine Lankford
Eugene Young Lee
Jennifer Levy
Les I-Lee Liu
Marie Grant Lukens
Dana Lynn Marinacci
James Francis Marino
Matthew Thomas Mayr
Christopher Thomas McColl
Donald James Munro
Kathryn Elizabeth Ng
Pyong Chul Oh
Sylvia Woo Park
Terri-Diann E. Pickering
Nathan McWilliams Potter
Vincent Joseph Presti
Howard Zachary Robbins
Marjorie Gail Rotstein
Eric Marc Ruck
Kimberly Ann Rusin
Melissa Dawn Selke
Rinoo Vasant Shah
Joseph Robert Shiber
Chi Ching Shum
Anthony Jared Silverstein
Steven Anthony Sirotic
Lori Ann Snyder
Marc Steven Korman Spindelman
Patricia Marie Steigerwald
Linda Noell Svelling
Terrance Michael Swords
Manora Szeto
Nelson Tang
Kerry Michel Tesoriero
Neil M. Yekell
Laurence Mitchell Zeitlin

Graduates from the Humanistic Studies Honors Program

Anja Sibylle Jefferis
George Lerner

Baccalaureate Candidates in the G.W.C. Whiting School of Engineering
Graduating with Departmental Honors

Sanjay Kumar Aggarwal
Douglas Matthew Arm
William Beard Brinckerhoff
Elissa Eleanor Carapella
Sean Gerald Corcoran
Bassil Dayihat
John David Dengler
Michael Allen Facello
James Patrick Gray
Michael Lewis Greenfield
Eric Bruce Haura
David H. Hsu
Howard P. Hui
John Daniel Joyce
Yookyung Kim
William Joseph Krause
Neil Lofgren
Rebecca Ann Mattress
Ty Casey Mullen
Robert Andrew Nichols
Theodore Charles Ondracek
Rochelle Dawn Payne
Alistair B.M. Phillips
Phillippe Olivier-Marie Pouliquen
Michele Jeanette Royce
Phoebe Josephine Sengers
Volney L. Sheen
Saurabh Ranjan Sinha
Daniel Sisbarro
Jennifer Marie Stephan
Bryan Christopher Still
Gordon Wayne Stoll
John Michael Syptak
Jonathan Carl Wagner
Catherine Mary Witt
Howard Shann-Cherng Ying

Baccalaureate Candidates in the School of Continuing Studies
Graduating with Honors

Mary Svec Detzel

Angela Warns Dobbyn
Charlotte Sandra Friedman

Teresa Ayd Knott
Toni P. Robinson

Judah Joseph Taub

Baccalaureate Candidates in the Part-Time Engineering Programs
Graduating with Honors

Michael Lee Bangham
Michael Chmielewski

Donald James Fritzges, Sr.
Joyce Carroll Gipson

John Ronald Jacobs
Scott Roycroft

Ronald Steven Tosh

Candidates for Degrees

as of May 8, 1990

A number of students included in the lists which follow completed their degree requirements earlier in the academic year and could not be present today to receive their degree in person.

Bachelors of Arts in The School of Arts and Sciences

Michael Craig Aaronoff, of Millburn, N.J.
Mark Evan Abramson, of Coram, N.Y.
Linda Chung Ahn, of McLean, Va.
Uri Michael Ahn, of Darien, Ill.
Murat Zeki Akalin, of Highland Park, Ill.
Carrie Allalemdjian, of Cold Spring Harbor, N.Y.
Christopher Seth Allen, of Medford, Mass.
Julia Marie Allen, of Cortland, N.Y.
Hande Didem Altop, of Pittsburgh, Pa.
Karen Marcia Anderson, of Newark, Del.
Robert G. Angevine, of Appleton, Wis.
Tsvetan Radoslavov Bachvaroff, of New York, N.Y.
William Converse Bacon, Jr., of Granville, Mass.
Karen Elizabeth Baji, of Tenafly, N.J.
Michael Joseph Baks, of Grosse Pointe, Mich.
David Whitham Barker, of Murrysville, Pa.
Francisco Reposar Barrera, Jr., of Woodbridge, Va.
Jennifer Lynn Barsema, of Allentown, Pa.
Mona Basta, of Tulsa, Okla.
Mark Eric Bateman, of Salem, Ore.
Christopher Michael Becker, of Brookfield, Wis.
Rachel Elizabeth Beer, of Ithaca, N.Y.
Scott Adam Berger, of Smithtown, N.Y.
David Moshe Bergman, of East Meadow, N.Y.
Andrew Evan Bernstein, of Montville, N.J.
David Bruce Bernstein, of Suffern, N.Y.
Sharon Indira Bhagwan, of Queens, N.Y.
Terry Jo Vetters Bichell, of St. Louis, Mo.
Philip Jay Bildner, of Jericho, N.Y.
Robert Eric Bilik, of Jacksonville, Fla.
Christine Penelope Blado, of West Hartford, Conn.
David Mark Blass, of Baltimore, Md.
Peter A. Blitstein, of New York, N.Y.
Jeffrey Seth Blitz, of Ridgewood, N.J.
Michael Ralph Blumhardt, of San Antonio, Texas.
Christopher A. Bonanos, of East Brunswick, N.J.
Mary Elizabeth Borja, of Clearwater, Fla.
Marc Guy Boulay, of Cumberland, R.I.
Brock Kenneth Bowman, of Los Gatos, Calif.
Andrew David Boyarsky, of Manchester, N.H.
Helen Joy Boyer, of Olney, Md.
Jeanine Boyle, of Roselle, N.J.
Thierry J. Braham, of Westbury, N.Y.
Thomas Stephen Brennan, of Holmdel, N.J.
Jonathan Alan Brenner, of Millwood, N.Y.
Robert Marshall Brenner, of Weston, Mass.
William Beard Brinckerhoff, of Scarsdale, N.Y.
Kirsten Michele Brinkmann, of Upper Saddle River, N.J.
Christopher David Brown, of Cresskill, N.J.
Elizabeth Ely Brown, of West Hartford, Conn.
Kevin Alan Burkett, of Seattle, Wash.
Richard Matthew Burne, of Clarks Summit, Pa.
Andrew Charles Bushnell, of Hopewell, N.J.
Ari M. Bustin, of Rockville, Md.
John Joseph Calkins, of Towson, Md.
Christin Campbell, of Kalamazoo, Mich.
Sanford Elias Cannold, of Riverdale, N.Y.
Thomas James Cantilina, of Milford, N.J.
Rachel West Carpenter, of Philadelphia, Pa.
Erin Ross Carroll, of Cranston, R.I.
Laura Margaret Carroll, of Haddam, Conn.
Nicole Kamakahukilani Caspers, of Mamaroneck, N.Y.
Amanda Elizabeth Castle, of Hempstead, N.Y.
Louis William Catalano, of Greensburg, Pa.
Mark Francis Catterall, of Morris Plains, N.J.
Luis Vitaliano Centenera, of Englewood Cliffs, N.J.
Richard Chang, of Princeton, N.J.
Weijen Chang, of Bakersfield, Calif.
Lihsia Chen, of Singapore.
Sheldon Chen, of Wilmette, Ill.
Suzie MoonJoo Chi, of Troy, Mich.
Stephanie Yu-Hue Chiu, of Toledo, Ohio.
Wei Chu, of New York, N.Y.
Cathy Chuang, of Dix Hills, N.Y.
Julia Anne Chung, of Naperville, Ill.
Steve William Ciccarone, of Baltimore, Md.
Kenneth A. Clark, of Chagrin Falls, Ohio.
Julian Sangston Clarke III, of Lutherville, Md.
Beth Ann Coglianese, of Matteson, Ill.
Jennifer Hadary Cohen, of Evanston, Ill.
Noam Aryeh Cohen, of Baltimore, Md.
Paul Michael Collier, of Salem, N.J.
Frederick Michael Conroy, of Pittsburgh, Pa.
Daniel Alfred Cord, of Columbia, Md.
Michael Steven Corelli, of Hartsdale, N.Y.
Thomas Anthony Corlett, of Canton, Ohio.
Andrea Gail Crane, of New York, N.Y.
Todd Shane Crocenzi, of Etters, Pa.
Christopher Lee Culp, of Brentwood, Tenn.
Edward Philip Cutolo, of Tampa, Fla.
Philip Henry Daileader, Jr., of Islandia, N.Y.
Patrick Michael Daly, of Washington Twp., N.J.
Monique R. Daniels, of Philadelphia, Pa.
James Francis Dante, of Churchville, Md.
Victor H. Dates, of Baltimore, Md.
Akshay Vibhakar Davé, of New Orleans, La.
Stephen Franklin Davis, of Springfield, Pa.
Thomas Gerard Dayton, of Cold Spring Harbor, N.Y.
Michael Evans Dear, of Baltimore, Md.
Jeffrey Steven De Cagna, of West Orange, N.J.

Howard Benjamin Degenholtz, of Teaneck, N.J.
John David Dengler, of Bally, Pa.
John Francis DeRosimo, Jr., of Waterbury, Conn.
Colette Rose Desrochers, of Lowell, Mass.
James C. DeTommaso, of Farmingdale, N.Y.
Thomas Darren Devine, of Chesterton, Ind.
Dianna Louise De Vore, of Albuquerque, N.M.
Paul Diamond, of Levittown, N.Y.
Lydia Maria Dibos, of Towson, Md.
Thomas Barrow Drohan, of Hingham, Mass.
David Edward DuBois, of Woonsocket, R.I.
Steven Michael Dudek, of Joliet, Ill.
David Charles Conor Dudley, of Williamsville, N.Y.
Daniel Richard Durkin, of Glen Arm, Md.
Van Clinton Durrer II, of Baltimore, Md.
Cecelia W. Eareckson, of Baltimore, Md.
Tonya Renee Echols, of Cincinnati, Ohio
David Aaron Elkes, of Maitland, Fla.
Chad Stokes Ellis, of Greenwich, Conn.
Brett Wayne Engbrecht, of Anderson, Ind.
Amy Ruth Engel, of Highland Park, Ill.
Jonathan Jacob Engler, of Pittsburgh, Pa.
Efrem Laurence Epstein, of New Rochelle, N.Y.
Jay Christopher Erickson, of Tacoma, Wash.
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Joan Donaldson, of Ellicott City, Maryland; B.S.N., University of Maryland, 1985. *"Perceived Collaboration Among Nurses and Physicians in Medical and Surgical Settings".*

Patricia Jo Horgas, of Baltimore, Maryland; B.S.N., Pennsylvania State University, 1985. *"Effect of Adolescent Suicide Prevention Program on Knowledge and Attitudes of Student Teachers".*

Linda J. Kobokovich, of Enfield, New Hampshire; B.S.N., University of Maryland, 1983. *"The Role of The School of Nursing in Pregnancy Prevention".*

Masters of Music in The Peabody Conservatory of Music

Darci Ann Bultema, of Valley City, N.D.; B.S. North Dakota State University, 1988. Voice.

Robert Richard Cantrell, of Gainesville, Ga.; B.S. Knoxville College, 1987. Voice.

Quei-Lih Chen, of Tainan, Taiwan; B.M. The Johns Hopkins University, 1988. Piano.

Walter Choi, of Turnersville, N.J.; B.M. The Johns Hopkins University, 1988. Violin.

Willa Jane Conrad, of Chicago, Ill.; B.A. Seattle University, 1984. Music Criticism.

Eileen Frances Curry, of Columbia, Md.; B.M. West Virginia University, 1986. Music Education.

Peter Daniel Dennee, Menasha, Wis.; B.A. Carthage College, 1986. Music Education.

Susan R. Dermer, of Monroeville, Pa.; B.M. Carnegie-Mellon University, 1984. Horn.

Yvette Mashún Devereaux, of Compton, Calif.; B.M. Chapman College, 1987. Conducting.

Donna Elaine Dunford, of Tazewell, Va.; B.A. University of Virginia, 1987. Harp.

Jacqueline Faiman, of Urbana, Ill.; B.M. Oberlin College, 1987. Piano.

Monica Jane Frey, of Bechtelsville, Pa.; B.M. Oberlin College, 1988. Piano

Anne Marie Giffin, of Jacksonville, Fla.; B.M. Indiana University, 1989. Piano.

Howard Alan Goldstein, of Los Angeles, Calif.; B.A. University of California at Los Angeles, 1982. Conducting.

Scott Carleton Gregg, of Dallas, Texas; B.A. Harvard College, 1988. Conducting.

Melanie M. Halsell, of Frederick, Md.; B.A. Fairmont State College, 1980; M.M. West Virginia University, 1988. Music Education.

Mary J. Hochkeppel, of New Windsor, Md.; B.M. Westminster Choir College. 1980. Music Education.

Michelle Denise Howard, of Baltimore, Md.; B.M. Towson State University, 1985. Voice.

Kerri Lyn Hyatt, of Grantsville, Wis.; B.M. Oberlin College, 1988. Piano.

Martin David Jones, of Los Angeles, Calif.; B.M. California State University at Northridge, 1988. Piano.

Rachel Wylene Jordan, of New Orleans, La.; B.M. The Johns Hopkins University, 1988. Violin.

Kimberly Jan Kovacs, of Mountain View, Calif.; B.A. San Jose State University, 1984; M.A. San Jose State University, 1986. Conducting.

Hyun Jin Kwon, of Baltimore, Md.; B.M. The Johns Hopkins University, 1988. Violoncello.

Daniel Jonathan Lau, of Loma Linda, Calif.; B.M. Loma Linda University, 1988. Piano.

Kyung Sun Lee, of Seoul, Korea; B.M. Seoul National University, 1988. Violin.

John William Miller, of Hampton, Va.; B.M. James Madison University, 1988. Double Bass.

Akiko Nakanishi, of Tokyo, Japan; B.M. The Johns Hopkins University, 1988. Piano.

Cindy L. Noble, of Fairfax, Va.; B.M.E. Southeast Missouri State University, 1985. Music Education.

Brenda Joy Nuckton, of Baltimore, Md.; B.A. Lewis and Clark College, 1982. Voice.

Hyun-Sook Park, of Atlanta, Ga.; B.M. The Johns Hopkins University, 1988. Piano.

Michung Park, of Seoul, Korea; B.M. The Johns Hopkins University, 1988. Piano.

Peter Mark Prince, of McLean, Va.; B.S. George Mason University, 1979. Composition.

Shari Allison Rosen, of Old Bethpage, N.Y.; B.M. The Johns Hopkins University, 1988.

Richard Roth, of Phoenix, Ariz.; B.M. Arizona State University, 1984. Composition.

Dámaris Monserrate Rivera Sánchez, of Rio Piedras, Puerto Rico; B.A. Conservatory of Music of Puerto Rico, 1986. Voice.

Elizabeth Anne Sobey, of San Antonio, Texas; B.M. Trinity University, 1988. Piano.

Kaoru Takeda, of Tokyo, Japan; B.M. Oberlin College, 1987. Piano.

Norman Curtis Thibodeau, of Albany, N.Y.; B.A. State University of New York at Albany, 1981; M.M. The Johns Hopkins University, 1986. Music History.

Shaun Tirrell, of Watertown, Conn.; B.M. Oberlin College, 1988. Piano.

Kimberly Ann Trolier, of Wayne, Pa.; B.M. The Johns Hopkins University, 1988. Flute.

Bonnie Louise Viens, of Stafford Springs, Conn.; B.A. University of Notre Dame, 1988. Saxophone.

Elizabeth Alice Way, of Pomona, Calif.; Prof. Cert. Royal Academy of Music - London, 1987; Adv. Perf. Cert. Royal Academy of Music - London, 1988. Music History and Violin.

Kitty Chi-Ti Fan Yang, of Lancaster, Pa.; B.S. Fu-Jen University, 1976. Organ.

Douglas Scott Yarwood, of Columbia, Mo.; B.G.S. University of Missouri at Columbia, 1985. Double Bass.

Artist Diplomas in The Peabody Conservatory of Music

Frank Levy, of Lausanne, Switzerland; Cert. Conservatory of Music of Geneva, 1984. Piano.

Shu Jun Li, of Shen Zhen, China; B.A. Shen Yang Conservatory of Music, 1982. Harp.

Amy Lin, of Huntington Beach, Calif.; B.A. The Johns Hopkins University, 1982; M.M. The Johns Hopkins University, 1985. Piano.

Daniel Marc Malkin, of Berkeley, Calif.; B.M. New England Conservatory, 1987. Violoncello.

Chrissellene G. Petropoulos, of Potomac, Md.; B.S. University of Maryland, 1975; M.A. Curtis Institute of Music, 1978. Voice.

Marc A. Ramirez, of Arlington, Va.; Perf. Cert. The Johns Hopkins University, 1986. Violin.

Anthony Russell Simons, of Center Valley, Pa.; B.S. West Chester State College, 1975; M.M. University of Illinois, 1981. Clarinet.

Reinhard W. Sunnus, of Baltimore, MD.; Dipl. Staatliche Hochschule Für Musik Rheinland, 1981. Flute.

Marta Szlubowska, of Warsaw, Poland; B.M. The Johns Hopkins University, 1987. Violin.

Arkadiusz Tesarczyk, of Laziska, Poland; Perf. Cert. The Johns Hopkins University, 1987. Violoncello.

Lisa Wienhold, of Anchorage, Alaska; B.M. The Johns Hopkins University, 1982 and 1987; M.M. The Johns Hopkins University, 1985. Flute.

Graduate Performance Diplomas in The Peabody Conservatory of Music

Corey Michael McVicar, of Sydney, Australia; Perf. Cert. The Johns Hopkins University, 1988. Piano.

Edward Lawrence Williams, of Bethesda, Md.; B.M. The Johns Hopkins University, 1988. Horn.

Masters of Science in The School of Hygiene and Public Health

Lynne Marie Cox, of Kent, Wash.; B.A. Lake Forest College, 1986. Environmental Health Sciences. *Enumeration of Acid-Fast Bacteria in Wastewater and Sludge.*

Elizabeth Bowen Kelly, of Ellicott City, Md.; B.S. Indiana University of Pennsylvania, 1981. Environmental Health Sciences. *Alterations in Glutathione Maintenance in the Ozone-Exposed Rat Lung.*

Jolene Marie Laudolff, of Eden, Wis.; B.S. Marquette University, 1983. Biostatistics. *A Family of Parametric Survival Functions Assuming Parameter Heterogeneity.*

Medhat Mohamed Osman, of Assiut, Egypt; M.B.B.S. University of Assiut, 1985. Environmental Health Sciences. *Development, Validation, and Application of a Calibration Procedure for Quantification of Film-Based Bone Scans.*

Mark O'Brien Peeler, of Annapolis, Md.; B.S. University of Notre Dame, 1986. Health Policy and Management. *Fatalities from Recreational Boating Mishaps in Maryland, 1983 - 1987.*

Christina Rozsenich, of Warren, Mich.; B.A. University of Michigan, 1978. Behavioral Sciences and Health Education. *Attitudes and Practices in Response to the AIDS Epidemic: A Cross-Sectional Study of Gay Men in Baltimore.*

Joumana Antoine Stephan, of Beirut, Lebanon; B.S. American University of Beirut, 1987. Biostatistics. *PC Carp from the Prediction Perspective: An Analysis of Childhood Injury Data.*

Arnoldo Vera Ramirez, of San Cristobal, Venezuela; M.D. Universidad de Carabobo, 1970. Population Dynamics. *Peripartum Production of Prostanoids by the Uterus, Decidua, Placenta and Fetal Membranes of the Pregnant Rat.*

Masters of Health Science in The School of Hygiene and Public Health

Sibyl Erna Anderson, of New York, N.Y.; B.A. The Johns Hopkins University, 1985. Population Dynamics.

Ramona Arora, of Silver Spring, Md.; B.S. University of Maryland, 1987. Health Policy and Management. Health Finance and Management.

Gustavo Adolfo Avila Montés, of Tegucigalpa, Honduras; M.D. National University of Honduras, 1987. International Health.

Virginia Elizabeth Bradford, of Pepper Pike, Ohio; B.A. Kenyon College, 1985. Maternal and Child Health.

Charles Bragdon, of Crofton, Md.; B.A. Duke University, 1976; B.S. University of Maryland, 1984. Environmental Health Sciences.

Brian Carl Breneman, of Baltimore, Md.; B.A. Dartmouth College, 1979. Health Policy and Management. Health Finance and Management.

Margaret Mary Brennan, of Baltimore, Md.; B.A. Williams College, 1977; M.D. Vanderbilt University, 1981. Epidemiology. Clinical Epidemiology.

Alfred Campanella, of Silver Spring, Md.; B.A. Georgetown University, 1981; M.T.S. Weston School of Theology, 1985. Health Policy and Management. Health Finance and Management.

Margaret Cheng, of Lawrenceville, N.J.; B.A. Wellesley College, 1987. Health Policy and Management. Health Finance and Management.

Ursula Maher Connolly, of Locust Valley, N.Y.; B.A. Duke University, 1987. Population Dynamics.

Nadine Mescia Deinard, of Sarasota, Fla.; B.A. Stetson University, 1988. Health Policy and Management. Health Finance and Management.

Mary Colleen Delaney, of Syracuse, N.Y.; B.S. Nazareth College of Rochester, 1988. Environmental Health Sciences.

Adrian Sandra Dobs, of Baltimore, Md.; B.S. Cornell University, 1973; M.D. Union University, 1978. Epidemiology. Clinical Epidemiology.

Colleen Elizabeth Dowd, of Syracuse, N.Y.; B.S. University of South Carolina, 1988. Health Policy and Management. Health Finance and Management.

Lyle Richard Edinger, of Durand, Mich.; B.S. University of Michigan, 1980. Environmental Health Sciences.

José Arturo Farfán Ale, of Merida, Mexico; M.D. University of Yucatan, 1981; M.Sc. National Autonomous University University of Mexico, 1987. International Health.

Edwardo A. Fernández-Cerna, of Comayaguela, Honduras; M.D. National University of Honduras, 1988. International Health.

Louis C. Fiorucci, Jr., of New Windsor, Md.; B.A. University of Maryland, 1971; B.S., 1974. Environmental Health Sciences.

Maria Goretti Pereira Fonseca, of Uberaba, Brazil; M.D. Federal University of Uberlandia, 1981. Epidemiology. Chronic Disease Epidemiology.

Maria Lourdes Francisco, of Seaford, Del.; B.S. Duke University, 1986. International Health.

Roy Elliot Fried, of Silver Spring, Md.; B.S. Rensselaer Polytechnic Institute, 1982; M.D. Albany Medical College, 1983. Epidemiology. Clinical Epidemiology.

Héctor J. Gallardo Rincón, of Guadalajara, Mexico; M.D. University of Guadalajara, 1981. International Health.

Gerard Gallucci, of New York, N.Y.; B.A. Columbia University, 1978; M.D. Georgetown University, 1984. Mental Hygiene.

Héctor Gómez Dantés, of Mexico City, Mexico; M.D. National Autonomous University of Mexico, 1981; M.Sc. University of London, 1987. International Health.

Pamina Mae Gorbach, of Chestnut Hill, Mass.; B.A. Brown University, 1987. International Health.

Leigh Ainslie Henderson, of Baltimore, Md.; B.A. Oberlin College, 1976. Epidemiology. Chronic Disease Epidemiology.

Michelle Jane Hindin, of West Orange, N.J.; B.A. Oberlin College, 1988. Population Dynamics.

Mei-Ling Hsu, of Taipei, Republic of China; B.P. Taipei Medical College, 1987. Immunology and Infectious Diseases.

Florence Kaltovitch, of Millersville, Md.; B.S. Stockton State College, 1981; M.S. Hadnemann University, 1985. Environmental Health Science. Radiation Health Sciences.

Radhakrishna Vaman Cannanore Kamath, of Gangavati, India; M.B.B.S. Karnatak University, 1965. Environmental Health Sciences. Radiation Health Science.

Lisa Ann Keefe, of Ellicott City, Md.; B.S. James Madison University, 1988. Health Policy and Management. Health Finance and Management.

Pamela Tiby Kritz Kosansky, of Baltimore, Md.; B.S. Rutgers University, 1986. Environmental Health Sciences.

Dorlyn Adell Law, of Great Mills, Md.; B.A. The State University of New Jersey at Rutgers, 1987. Health Policy and Management. Health Finance and Management.

Maria Alba Loroño Pino, of Merida, Mexico; B.S. University of Yucatan, 1981; M.Sc. National Autonomous University of Mexico, 1985. International Health.

Christina Ann Lundquist, of Baltimore, Md.; B.A. Williams College, 1985. Health Policy and Management. Health Finance and Management.

Prakarmajith Vijay Lutchman, of Quatre Bornes, Mauritius; B.A. University of Paris VII, 1978. Mental Hygiene.

Jorge F. Méndez Galvan, of Mexico City, Mexico; M.D. National Autonomous University of Mexico, 1976; M.P.H. Public Health School of Mexico, 1978. International Health.

Syema Muzaffar, of Karachi, Pakistan; M.B.B.S. Dow Medical College at Karachi, 1987. Population Dynamics.

Anne N. Nafziger, of Cooperstown, N.Y.; B.A. Goshen College, 1979; M.D. Case Western Reserve University, 1984. Epidemiology. Chronic Disease Epidemiology.

Dora Dafnis Panagides, of Limassol, Cyprus; B.S. Iowa State University, 1986 International Health.

Melissa Jeanne Perry, of Highgate Center, Vt.; B.A. University of Vermont, 1988. Mental Hygiene.

Michele Polacsek, of Baltimore, Md.; B.A. The Johns Hopkins University, 1984. International Health.

Brian Stanley Powers, of Syracuse, N.Y.; B.S. Rutgers University, 1986. Environmental Health Sciences.

Julie L. Rothfeld, of Baltimore, Md.; B.A. The Johns Hopkins University, 1986. Health Policy and Management. Health Finance and Management.

Ronenn Roubenoff, of Baltimore, Md.; B.S. Northwestern University, 1981; M.D., 1983. Epidemiology. Clinical Epidemiology.

Fadia Saadah, of Beirut, Lebanon; B.S. American University of Beirut, 1982; M.S., 1985. Biostatistics.

Anne Laura Schwartz, of Washington, D.C.; B.A. Brown University, 1983. Health Policy and Management. Health Finance and Management.

William R. Sigmund, II, of Baltimore, Md.; B.S. Davidson College, 1978; M.D. West Virginia University, 1982. Epidemiology. Clinical Epidemiology.

Heide J. Smith, of Austin, Texas; B.S. University of Texas, 1988. Health Policy and Management. Health Finance and Management.

Elina Shang Yee So, of Campbell, Calif.; B.A. University of California at Berkeley, 1988. Health Policy and Management. Health Finance and Management.

Barbara Helene Sohmer, of Baltimore, Md.; B.S. University of Maryland, 1975; M.D. The Johns Hopkins University, 1979. Epidemiology. Chronic Disease Epidemiology.

Ramón Jeremias Soto Hernandez, of Tegucigalpa, Honduras; M.D. National University of Honduras, 1986. International Health.

Claudia Theresa Spiewak, of Bend, Ore.; B.A. State University of New York at Buffalo, 1976. Health Policy and Management. Health Finance and Management.

Gau-Jun Tang, of Taipei, Republic of China; M.D. National Yang Ming Medical College, 1982. Environmental Health Sciences.

Jane Cameron Wells, of Baltimore, Md.; B.A. Yale University, 1980; M.D. University of Virginia, 1984. Epidemiology. Chronic Disease Epidemiology.

Beth Ann Catherine Yeager, of Horsham, Pa.; B.A. Pennsylvania State University, 1988. International Health.

Beth Louise Ziemann, of Remsen, N.Y.; B.S. Clarkson University, 1985. Environmental Health Sciences.

Masters of Public Health in The School of Hygiene and Public Health

Véronique Addor, of Carouge, Switzerland; B.A. La Source Nursing School, 1983.

Jacques Michel Mario Adrien, of Port-Au-Prince, Haiti; M.D. Republic of Haiti State University, 1982.

Kokila Kashyap Agarwal, of Redondo Beach, Calif.; M.B.,B.S. University of Delhi, 1981. D.P.H. University of Dhaka, 1985.

James Charles Alexander, Jr., of Sedalia, Mo.; B.A. University of Missouri, 1970; M.D. Uniformed Services University of the Health Sciences, 1980.

Anwer Aqil, of Karachi, Pakistan; M.B.B.S. Dow Medical College, 1980; M.C.P.S. College of Physicians and Surgeons, 1984.

Vinya Shanthidas Ariyaratne, of Moratuwa, Sri Lanka; B.S. De La Salle University, 1985; M.D., 1989.

Connie A. Asesor, of Alexandria, Va.; D.V.M. University of the Philippines, 1965.

Maha Hakim Asham, of Cairo, Egypt; M.B.B.S. University of Assiut, 1985.

James Leroy Baker, of Glendale, Calif.; B.A. Occidental College, 1977; M.D. University of Oklahoma, 1981.

Luc Barriere-Constantin, of Bordeaux, France; M.Sc. University of Paul Sabatier, 1975; M.D., 1983.

Karen Marie Bartnett, of Scarsdale, N.Y.; B.S. Springfield College, 1982; M.S. Pace University, 1984.

Peter Lowell Beilenson, of Baltimore, Md.; B.A. Harvard College, 1981; M.D. Emory University, 1987.

Jennifer Anne Bendall, of Redondo Beach, Calif.; B.S.N. University of Maryland, 1983.

Beatrice Giaimo Blacklow, of Kensington, Md.; B.A. State University of New York at Buffalo, 1970.

George Vaden Blackwood, of Charlotte, N.C.; B.S. Wofford College, 1972; M.S. Memphis State University, 1977; D.O. Kirksville College of Osteopathic Medicine, 1981.

James Frederick Blanchard, of Winnipeg, Canada; B.Sc. University of Manitoba, 1986; M.D., 1986.

Daniel Magnus Bleed, of Rockford, Ill.; B.A. Wheaton College, 1983; M.D. University of Illinois, 1988.

Niranjani Reddy Bonner, of Baltimore, Md.; M.D. Osmania University, 1972.

James Edward Bruckart, of Hanover, Pa.; B.S. Tulane University, 1978; M.S., 1979; M.D. Uniformed Services University of Health Sciences, 1983.

Carlos Eugene Caban, of Rockville, Md.; B.A. Colgate University, 1963; Ph.D. State University of New York at Buffalo, 1971.

Ian James Douglas Caisley, of Sheffield, England; M.B.Ch.B. The University of Edinburgh, 1974.

Julie Ann Paula Casani, of Baltimore, Md.; B.A. New York University, 1976; M.D., 1980.

Elissa Jean Chandler, of San Francisco, Calif.; B.A. University of Michigan, 1975; B.S.N. University of California at San Francisco, 1980.

Anita Shabnam Chatman, of Los Angeles, Calif.; M.B.B.S. Dhaka Medical College, 1981.

Sunil Kumar Chatterjee, of Dhamtari, India; M.B.B.S. Ravishanker University, 1974; M.D. Christian Medical College at Ludhiana, 1981.

Chanpen Choprapawon, of Bangkok, Thailand; M.D. Mahidol University, 1981.

Donna Jean Churyk, of Washington, Conn.; B.S. Cornell University, 1987.

Carol Cistola, of Juneau, Alaska; B.S. Pennsylvania State University, 1969; M.D. Medical College of Pennsylvania, 1975.

Mary Ruth Clance, of Atlanta, Ga.; B.A. Emory University, 1976; M.D., 1981.

Leo Arnold Conger, Jr., of San Antonio, Texas; B.S. Texas A.& M. University, 1974; D.V.M., 1977; M.D. Texas Tech University Health Sciences Center, 1984.

Victor Raul Cuba, of San Isidro, Peru; M.D. Universidad Nacional Mayor de San Marcos, 1977; M.A., 1983.

Robin M. Cuddy, of Baltimore, Md.; B.S. University of Connecticut, 1976; M.S. Georgetown University, 1979, M.D., 1983.

Ann Lucienne Dallman, of San Francisco, Calif.; B.A. University of California at San Diego, 1984; M.D. University of California at San Francisco, 1989.

Della Jill Dash, of San Francisco, Calif.; B.S.N. San Francisco State University, 1986.

Gerard Anselm Davidson, of Santa Cruz, Trinidad and Tobago; B.S. Howard University, 1987; D.D.S., 1987.

Robert William Davis, of Lancaster, Pa.; B.S. Lancaster Bible College, 1981.

Yvette Mary Ella Davis, of Wilmington, Del.; B.S. Cornell University, 1976; V.M.D. University of Pennsylvania, 1981.

Marc Jean-Paul Debay, of Brussels, Belgium; M.D. Universite Libre de Bruxelles, 1982.

Susan Hankin Denise, of Baltimore, Md.; B.A. University of Pennsylvania, 1980; J.D. University of Virginia, 1986.

Mary Ann Dettmer, of Donaldson, Ind.; B.S.N. DePaul University, 1974.

Daniel Jackson Dickinson, of Virginia Beach, Va.; B.A. University of Virginia, 1981; M.D. Duke University, 1985.

Scott Ferris Dowell, of Richardson, Texas; B.A. Wesleyan University, 1985.

Anita G. Eichler, of New York, N.Y.; B.A. Mount Holyoke College, 1966; M.A. Antioch College, 1977.

Maarten Walter Elink Schuurman, of Baltimore, Md.; M.D. State University of Utrecht, 1979.

William H. M. Finney, of Baltimore, Md.; B.A. Princeton University, 1948; M.D. The Johns Hopkins University, 1953.

Matthew Edwin Fitzgerald, of Middletown, N.J.; B.A. University of Delaware, 1981; M.S. Florida Institue of Technology, 1988.

Mary Ellen Ford, of McAdoo, Pa.; B.A. Temple University, 1984; M.D. The Johns Hopkins University, 1989.

Brian Glenn Forrester, of Canton, Ga.; B.S. University of Georgia, 1980; M.D. Emory University, 1984.

Gary James Fortune, of St. Louis, Mo.; B.S. Northeast Missouri State University, 1980; D.O. Kirksville College of Osteopathic Medicine, 1984.

Norma Lynn Fox, of Baltimore, Md.; B.A. Goucher College, 1976; Ph.D. Cambridge University, 1982.

Mary Elizabeth Gabriel, of Durham, N.H.; B.A. College of Notre Dame of Maryland, 1970; M.Ed. University of New Hampshire, 1971; M.D. Dartmouth Medical School, 1981.

Robert Gaertner, of Hamburg, West Germany; M.D. Catholic University of Louvain, 1983.

Joel Emanuel Gallant, of Los Angeles, Calif.; B.S. University of California at Irvine, 1979; B.A., 1980; M.D. University of California at San Francisco, 1985.

Carole E. Sammons Gallimore, of Morton, Pa.; B.S.N. Gwynedd Mercy College, 1980.

Basith M. Ghazali, of Karachi, Pakistan; M.B.B.S. The Aga Khan University, 1988.

Amida Nongho Ghogomu, of Yaounde, Cameroon; M.D. University Centre for Health Sciences, 1975.

Sanjoy Ghose, of New Delhi, India; B.A. Bombay University, 1980; M.Sc. Oxford University, 1985.

Roger L. Gibson, of San Antonio, Texas; D.V.M. Iowa State University, 1977.

Zorach Raphael Glaser, of Philadelphia, Pa.; B.S. Philadelphia College of Textiles and Science, 1962; Ph.D. Polytechnic University of New York, 1969.

Donald J. Glenn, of Baltimore, Md.; B.S.P. Pharm. University of Maryland, 1983.

Marinus H. Gotink, of Groningen, The Netherlands; M.D. State University of Groningen, 1981.

Ann A. Graham, of Bethesda, Md.; B.S.N. Northeastern University, 1971; G.R.N.A. Tufts University, 1973.

Ellen Liza Greenberg, of Washington, D.C.; B.A. University of Pennsylvania, 1986; B.S.N., 1986.

Herve Louis Guillain, of Fribourg, Switzerland; M.D. University of Lausanne, 1982.

Thomas Anthony Hall, of Williamstown, W. Va.; B.A., West Virginia University, 1983; B.A., 1985.

Josep Maria Haro Abad, of Barcelona, Catalonia; M.D. University of Barcelona, 1988.

Martha Joy Holley, of Burlington, Vt.; B.A. Wheaton College, 1987.

Timothy Henry Holtz, of Ames, Iowa; B.A. Saint Olaf College, 1986.

Alexander Holliday Hoon, Jr., of Chestertown, Md.; M.D. University of Pittsburgh, 1978.

Tzu-Fen Huang, of Taipei, Republic of China; B.S. National Taiwan University, 1986.

Robin Elizabeth Huebner, of Arlington Heights, Ill.; B.S. University of Illinois, 1978; M.S. University of Wisconsin, 1983; Ph.D., 1987.

Nancy Flinn Hughart, of Washington, D.C.; B.S.N. University of California at San Francisco, 1970.

Hudoyo Hupudio, of Jakarta, Indonesia; M.D. Padjadjaran State University, 1979.

Leslie Julian Hutchinson, of Cincinnati, Ohio; B.S. Xavier University, 1978; M.D. University of Cincinnati, 1984.

Frederick Nelson Hyman, of Reisterstown, Md.; B.S. University of Maryland, 1975; D.D.S., 1981.

Ulumenfo Augustine Imoisili, of Igueben, Nigeria; M.B. University of Nigeria, 1979; B.S., 1979.

Shivkumar Lakshminarayan Iyer, of Ahmedabad, India; M.B.B.S. Government Medical College at Surat, 1987.

Sabrina Fatima Jaar, of Port-Au-Prince, Haiti; B.A. Trinity College, 1985; J.D. Faculte de Droit, 1989.

Eric Robert Jamison, of Lompoc, Calif.; B.A. Westmont College, 1981; M.D. University of Southern California, 1985.

John Allen Jermano, of Washington, D.C.; B.S.N. The Catholic University of America, 1985.

Linda K. Johnson, of Laurel, Md.; B.S. Kansas State University, 1981; D.V.M., 1983; M.S., 1987.

Devesh Dhruva Kanjarpane, of Silver Spring, Md.; B.A. University of Rochester, 1984; M.D. Columbia University, 1988.

Margaret Achieng Kaseje, of Kisumu, Kenya; M.A. Wheaton College, 1983.

Bruce Allen Kaup, of Baltimore, Md.; B.A. Stanford University, 1975; M.D. University of Maryland, 1982.

Linda Sudderth Kay, of Atlanta, Ga.; B.S. Medical College of Georgia, 1972.

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Jane Elizabeth Koehler, of Chicago, Ill.; B.A. University of Michigan, 1973; D.V.M. Michigan State University, 1977.

Richard Frederick Kuehne, of Homestead, Fla.; B.S. United States Naval Academy, 1977; M.D. University of South Florida, 1980; M.P.A. Golden Gate University, 1989.

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James Leigh Laub, of San Jose, Calif.; B.A. University of California at Berkeley, 1968; M.S. University of Utah, 1975; D.O. Chicago College of Osteopathic Medicine, 1985.

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Pierre Andre Mazars, of N Djamena, Tchad; M.D. University of Medicine of Montpellier, 1973.

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Edward Kenneth Rodriguez, of Cleveland, Ohio; B.S. The Johns Hopkins University, 1988. Biomedical Engineering. *A Method to Reconstruct in Beating Canine Hearts the Sarcomere Lengths and Orientations at Transmural Sites.*

Ravindra Babu Sannareddy, of Nellore, India; B.E. University of Madras, 1984. Geography and Environmental Engineering.

Mark Jay Schactman, of Montreal, Canada; B.S. Washington University in St. Louis, 1988. Mathematical Sciences.

David John Scheerer, of Springfield, Pa.; Computer Science.

Todd Evan Schlesinger, of New York, N.Y.; A.S. The Johns Hopkins University, 1985; B.M.E., 1987. Materials Science and Engineering. *Mechanical Properties of Copper-Nickel Multilayer Thin Films.*

Francis Michael Seidel, of Emmitsburg, Md.; B.S. Mount Saint Mary's College, 1988. Computer Science.

Volney L. Sheen, of Lexington, Ky. Electrical and Computer Engineering.

Ching-Kuang Shene, of Taipei, Taiwan; B.S. Tamkang University, 1971; M.B.A., 1977. Computer Science.

David Alan Shifler, of Boonsboro, Md.; B.A. Western Maryland College, 1973. Materials Science and Engineering. *The Passivity of Metals and Alloys in Anhydrous Organic Solutions and Mixed Solutions.*

Maria Rovena Sobarzo, of Santiago, Chile; B.S. Massachusetts Institute of Technology, 1987. Chemical Engineering. *Controlled Release of Nuroactive Molecules from Porous Ethylene-vinyl Acetate Copolymer Matrices.*

John Scott Steckenrider, of Sherman, Ill.; B.S. The Johns Hopkins University, 1987. Materials Science and Engineering. *Laser Speckle Decorrelation as a Non-Contact Method for Brittle-Ductile Fracture Differentiation.*

Scott Edward Stethem, of San Antonio, Texas; B.S.E. University of Pennsylvania, 1986. Computer Science.

Christopher Charles Streinz, of New Hartford, Conn. Materials Science and Engineering. *Continued Studies of the Rate Limiting Mechanisms of Lithium Iodine (P2Vp) Batteries.*

Wen-Mann Su, of Nantou, Taiwan; B.S. National Cheng Kung University, 1981. Geography and Environmental Engineering.

Xia Teng, of Beijing, China. Materials Science and Engineering. *Experimental Study of Thermal Wave Scattering from Subsurface Features.*

Robert Lee Tregoning, of Frederick, Md. Mechanical Engineering. *Dynamic Fracture Toughness Measurements of Tough Ductile Steels.*

Gregory John Walters, of Baltimore, Md.; B.S.E.E. University of Maryland, 1987. Electrical and Computer Engineering.

Susan Lynn Weller, of Baltimore, Md.; B.S. The Johns Hopkins University, 1989. Electrical and Computer Engineering.

Alma Estes Wickenden, of Woodbine, Md.; B.S. The Johns Hopkins University, 1985. Materials Science and Engineering. *Photoluminescence Spectroscopy for Semiconductor Analysis.*

Paul David Wienhold, of Baltimore, Md.; B.M.E. University of Delaware, 1978. Materials Science and Engineering. *Prediction of Nonlinear Elasticity of Continuous Fiber Metal Matrix Composites from Carbon Fiber Elasticity Data.*

Che-Hua Allen Yang, of Taoyuan, Taiwan; B.S. National Taiwan University, 1984. Mechanical Engineering. *A Finite Element and Experimental Study of the Stress-Strain Field of Notched Tension Specimens.*

Yuanyuan Yang, of Jin Hua, People's Republic of China; B.S. Tsinghua University, 1982; M.S., 1984. Computer Science.

Norman M. Yarvin, of Palo Alto, Calif. Computer Science. *Hardware Protection for a Highly Secure Computer.*

Ming Zhu, of Shanghai, People's Republic of China; B.S. University of Rochester, 1989. Computer Science.

Master of Arts in The G.W.C. Whiting School of Engineering

Nancy Kolodny, of Newton, Mass.; B.A. Harvard University, 1986. Geography and Enviornmental Engineering. *Reductive Dissolution of Manganese Oxide Particles by Dimethylphenols.*

Carl Edward Renshaw, of Cambridge, Mass. Geography and Environmental Engineering. *Quantitative Morphology: 1. The Fractal Basin Technique, 2. An Application to Modeling Scale-Dependent Conductivity in Heterogeneous Aquifers.*

Master of Arts in The School of Arts and Sciences

Ather Maqsood Ahmed, of Rawalpindi, Pakistan; B.A. University of the Punjab, 1975; M.A. Quaid-i-Azam University, Pakistan, 1979. Economics.

Mark Alexander, of Wayne, N.J.; B.A. Oberlin College, 1987. Mathematics.

Roberto Nesbit Allen, of Miami, Fla. Mathematics.

Karl-Olof Andersson, of Spannarp, Sweden; B.S. Lund University, Sweden, 1986; Diploma, The Johns Hopkins University, 1988. *Liberal Theory and the Joint Venture in Developing Countries.*

Nehme Camille Ayoub, of Beirut, Lebanon; B.A. The Johns Hopkins University, 1989. Mathematics.

Farrukh 'Amin Azfar, of Karachi, Pakistan; B.A. The Johns Hopkins University, 1986. Physics and Astronomy. *The Use of Multichannel Plates for Tracking in High Energy Physics.*

William Farquhar Bacon, of Cleveland, Ohio; B.S. University of Michigan, 1986. Psychology.

Jillian Fiona Banfield, of Armidale, Australia; B.S. Australian National University, 1982. Earth and Planetary Sciences.

Stacy Ann Bennett, of New Brunswick, N.J. Psychology.

Ralf Beste, of Witten, Germany. History. *Limited Cooperation: German and U.S. Industrialists Mobilizing for World War I.*

Joan Blom, of Rotterdam, The Netherlands. Psychology.

Peggy Jean Boden, of St. Paul, Minn.; B.A. University of Minnesota, 1987. Near Eastern Studies.

Harlan Reed Breindel, of New York, N.Y.; B.A. Columbia University, 1987. Writing Seminars.

Sylvia Alderyn Brownrigg, of Mountain View, Calif.; B.A. Yale University, 1986. Writing Seminars. *The Nightwatchman and Selected Short Stories.*

Timothy James Burke, of Los Angeles, Calif.; B.A. Wesleyan University, 1986. History.

Sandra Carletti, of Cesena, Italy; Certificate, University of Bologna, 1985. Hispanic and Italian Studies.

Timothy Lawrence Challans, of Arvada, Colo.; B.S. United States Military Academy, 1977. Philosophy.

Kok-Yun Cheang, of Singapore; B.Sc. National University of Singapore, 1983; M.A. International University of Japan, 1985. Economics.

Catherine Ann Christen, of New York, N.Y.; B.A. Harvard University, 1983. History.

Jan-Jon Chu, of Kaohsiung City, Taiwan, Republic of China; B.S. Fu-Jen Catholic University, Taiwan, 1983. Chemistry.

Chuann-Deng Chyan, of Taipei, Taiwan; B.A. National Chengchi University, 1973; M.A. National Taiwan University, 1977. Economics.

Claudia Rebeca Colyer, of Columbia, Mo. Biology.

Clifford Bennett Corson, of Burlington, Vt.; B.A. University of New Hampshire, 1982; J.D. University of Maine, 1986. Philosophy.

John Bruce Culbert, of Maple Valley, Wash.; B.A. Reed College, 1985. French.

Haiyan Dai, of Yizhen, People's Republic of China; B.S. University of Science and Technology of China, 1987. Chemistry.

Samuel Tacitus D'Arcangelis, of Arlington, Texas; B.S. University of Texas at Arlington, 1988. Chemistry.

Joan Patterson Del Pozzo, of Philadelphia, Pa.; M.A. Middlebury College, 1972. Hispanic and Italian Studies.

Garrey Michael Dennie, of St. Vincent, W.I. History.

Daniel Désormeaux, of Port-au-Prince, Haiti. French.

James R. Dire, of Anaheim, Calif.; B.S. University of Missouri, 1982; M.S. University of Central Florida, 1986. Earth and Planetary Sciences.

Glenn Robert Dolphin, of Laurel, Md. Earth and Planetary Sciences.

Jennifer Louise Donohue, of Wayne, Pa.; B.A. Brown University, 1985. History of Art.

Diane Dorfman, of Philadelphia, Pa.; B.A. University of Massachusetts, 1985. Anthropology.

Lee Paul Dranikoff, of Livingston, N.J.; B.A. The Johns Hopkins University, 1989. Economics. *How Are Employment Decisions Influenced by Sales Expectations?*

Bernadette Therese Driscoll, of Washington, D.C.; B.A. Catholic University of America, 1974; M.A. Carleton University, 1983. Anthropology.

Yi-Ren Dzeng, of Taiwan, Republic of China; B. Law National Chengchi University, 1980; M.A. Western Michigan University, 1985. Political Science. *Sun Yat-Sen, Mao Tse-Tung and the Chinese Revolution: a Comparative Perspective.*

Ellis Eugene Easterly, of Johnson City, Tenn.; B.A. University of Kentucky, 1956; Th.M. New Orleans Baptist Theological Seminary, 1971; Th.D., 1977. Near Eastern Studies.

Dorice Williams Elliott, of Boone, Iowa; B.A. Brigham Young University, 1973; M.A. University of Utah, 1986. English.

Ziad Magdy Elmarsafy, of Cairo, Egypt. French.

.Christiana Katharina Paula Ennemoser, of Ludwigshafen, Germany. Political Science. *British Policies in Northern Ireland: An Evaluation of the Past Twenty Years.*

Heidi Ellen Erdrich, of Breckinridge, Minn.; B.A. Dartmouth College, 1986; M.A. The Johns Hopkins University, 1989. Writing Seminars. *The Kindred Earth.*

Colin Benjamin Essamuah, of Saltpond, Ghana; B.A. University of Ghana, 1982. History.

William Douglas Evans, of Seattle, Wash.; B.A. Reed College, 1984. Philosophy.

Mark Philip Fickes, of San Francisco, Calif.; B.A. University of California-Berkeley, 1987. French.

Cristiana Filippini, of Pesaro, Italy. History of Art.

John Albert Fortkort, of Washington, D.C. Chemistry.

Christopher Graham Fox, of Hartford, Conn.; B.A. Amherst College, 1988. French.

Catherine Ann Francis, of Bryan, Texas; B.A. University of Notre Dame, 1989. Writing Seminars. *The Accordian, and Other Stories.*

Jason Kalman Friedman, of Savannah, Ga.; B.A. Yale University, 1985. Writing Seminars. *The Fourth Glass.*

Xi Fu, of Chongqing, People's Republic of China. History.

Kathryn Helgesen Fuller, of Sewickley, Pa.; B.A. Agnes Scott College, 1982. History.

Juan Garcia, of La Tola, Ecuador. History. *Cimarronaje en el Pacifico Sur: Historia y Tradicion.*

Roberta Ruth Garrison-Mogren, of Jessup, Md.; B.A. Colgate University, 1984. Sociology.

David Mark Alan Gehler, of Cincinnati, Ohio; B.A. University of Cincinnati, 1988. Writing Seminars. *Coming Home at Night.*

Patrizia Genovese, of Napoli, Italy. Hispanic and Italian Studies.

Elizabeth Ann Gillespie, of Greenfield, Mass. Writing Seminars. *It's Yellow that Draws Me Now.*

Ananta Kumar Giri, of Jamalpur, India. Anthropology.

Stephanie Golski, of Frederick, Md.; B.A. Western Maryland College, 1988. Psychology.

Eric Todd Gordon, of New Hyde Park, N.Y.; B.A. Amherst College, 1988. French.

Robert John Gower, of Bedford, England. Earth and Planetary Sciences.

Lisa Jane Graham, of New York, N.Y.; B.A. Cornell University, 1985; M.A. New York University, 1987. History.

Jane Louise Gray, of Sligo, Ireland; B.A. Trinity College, Dublin, Ireland, 1984. Sociology.

Kenneth Albert Grossenbacher, of Oakland, Calif. Earth and Planetary Sciences.

Luis Eduardo Guarnizo, of Bogota, Colombia. Sociology.

Sharon Diane Guida-Kennedy, of Rockville Centre, N.Y.; B.A. Vassar College, 1984; M.F.A. University of Iowa, 1986. Writing Seminars. *Condensed Matters.*

Cole Coryell Harris, of St. Petersburg, Fla. Physics and Astronomy.

Jeffrey Joseph Hayes, of Greenville, Pa.; B.S. Bowling Green State University, 1983. Chemistry.

Jean Patricia Helin, of Rexford, N.Y.; B.S. State University of New York at Albany, 1988. Chemistry.

William Michael Herman, of Evanston, Ill.; B.A. Carleton College, 1986. Philosophy.

Patricia Bradshaw Holmes, of London, England; B.A. George Washington University, 1984. Anthropology.

Martin Calingasan Ilao, of Quezon City, Phillipines; B.S. Ateno de Manila University, 1974. Chemistry.

Nora Ann Jacobson, of Hartford, Conn.; B.A. Hampshire College, 1985. Writing Seminars. *Views Askance.*

Sanjay Jain, of New Delhi, India; B.A. University of Delhi, 1986. Economics.

Neda Jeny, of Rijeka, Yugoslavia. Classics.

Douglas Neil Johnson, of Iowa City, Iowa.; B.A. Washington University in St. Louis, 1987. Psychology.

Pamela Whitehead Kessler, of Camden, N.J. Writing Seminars. *Advances in the Craft and Other Stories.*

Ahmed Masood Khalid, of Islamabad, Pakistan. Economics.

Taeho Kim, of Seoul, Korea; M.A. Pennsylvania State University, 1985. Political Science.

Curtis Lee Kline, of Fargo, N.D.; B.S. North Dakota State University, 1987. Psychology.

Kevin Michael Kozlowski, of Pittsburgh, Pa.; B.A. Saint Mary's College of Maryland, 1981; M.A. University of California, Los Angeles, 1983. Mathematics.

John Edward Kresge, of Rahway, N.J.; B.A. Rutgers University, 1987. History.

Richard Lee Kyte, of Detroit Lake, Minn.; B.A. Hamline University, 1984. Philosophy.

Jaeyoung Lee, of Seoul, Korea. Physics and Astronomy.

Mark David Lee, of Corner Brook, Canada. French.

Gayle Annette Levy, of San Francisco, Calif.; B.A. University of California-Berkeley, 1987. French.

Min Li, of Shanghai, People's Republic of China. Chemistry.

Zong-cheng Lin, of Beijing, People's Republic of China; M.A. Central Academy of Nationalities, 1985. Anthropology.

Jan Linders, of Hamburg, West Germany. German.

Aliza Lirtzman, of Brooklyn, N.Y. History. *Baltimore Catholic Awareness and Response to Nazi Europe and Its Refugees.*

Claire Chi-ah Lyu, of Pusan, Korea; B.A. Wellesley College, 1986. French.

Xiaolong Ma, of Beijing, China; M.S. Southeastern Massachusetts University, 1988. Physics and Astronomy.

Henrik Steen Madsen, of Copenhagen, Denmark. Philosophy.

David Warren Majerus, of St. Louis, Mo.; B.A. Carleton College, 1982. Economics.

Elizabeth Helen Manning, of Manassas, Va.; B.S. University of Dakkas, 1987. Writing Seminars. *Silk Purses.*

Joseph Patrick Manzi, of Middletown, Conn.; B.A. Wesleyan University, 1985. Political Science. *Unmanageable Fallout: Trident II, Future U.S. Strategic Plans, and the Evolution of the Deterrent Environment.*

Alfredo Martinez-Franco, of Manassas, Va.; B.A. The Johns Hopkins University, 1988. History of Art.

Darrell LeRoy Matthews, of Salt Lake City, Utah; B.A. Brigham Young University, 1985; M.A., 1987. Near Eastern Studies.

Michael Dean Mays, of Eldorado, Ark.; A.A. Eastfield College, 1980; B.S. University of Texas at Dallas, 1982. Chemistry.

Stephen Mark McDuffie, of Portland, Ore.; M.A. The Johns Hopkins University, 1989. Earth and Planetary Sciences.

David John McGarvey, of Lorain, Ohio. Chemistry.

William Wallace McMillan, of Lexington, Ky. Earth and Planetary Sciences.

Catherine Patricia McMullen, of Chicago, Ill.; B.Sc. University of Calgary, 1985. Writing Seminars. *Scratching the Surface.*

Denise Lynn Merkle, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1982. Chemistry.

Andrew Mihailovic, of Goldens Bridge, N.Y.; B.S. Pace University, 1988. Chemistry.

Janice Marie Miller, of Lincoln, Neb.; B.A. University of Iowa, 1988. Writing Seminars. *Places of Safety.*

Giuliana Minghelli, of Pavullo nel Frignano, Italy. Hispanic and Italian Studies.

John Robert Mitchell, of Norristown, Pa.; B.A. Pillsbury Baptist Bible College, 1970; M.Div. Central Baptist Theological Seminary, 1973. Near Eastern Studies.

Michelle Mope, of Long Beach, Calif.; B.A. Mills College, 1988. Political Science. *Agency Proliferation and Institutional Influence: The Case of the Office of Science and Technology Policy.*

Sean Alexander Morales, of Miami, Fla.; B.A. University of Miami, 1987. Political Science. *The Relation Between the Increase in Republican Party Voter Registration and Hispanic Voters in Dade County, Florida.*

Viranjini Punyakante Munasinghe, of Colombo, Sri Lanka. Anthropology.

Jacqueline Shea Murphy, of Brooklyn, N.Y.; B.A. Barnard College, 1987. Writing Seminars. *Moving.*

Christopher Scott Nolle, of St. Louis, Mo.; B.S. California Institute of Technology, 1988. Physics and Astronomy.

Tatjana Novakovic, of Belgrade, Yugoslavia; B.A. Mills College, 1988. Psychology.

Rachel Nowak, of Bath, England. Writing Seminars. *The Three-Legged Horse.*

Gene Yoshitaka Oishi, of Guadalupe, Calif.; B.A. University of California-Berkeley, 1960; M.S. University of California-Los Angeles, 1963. Writing Seminars. *Hiroshi et al.*

Rina Palumbo, of Roccamaurice, Italy. History.

Chen Li Pan, of Taipei, Taiwan; B.S. National Central University, 1981; M.S. National Tsing Hua University, 1983. Mathematics.

Alan George Penczek, of Chicago, Ill.; B.A. Northeastern Illinois University, 1982. Philosophy.

Lance Taylor Peterson, of Neenah, Wis. French.

Edward Alan Pier, of New Hartford, N.Y.; B.S. University of Rochester, 1987. Physics and Astronomy.

Eva Carla Pietsch, of Herford, Germany. History. *Jewish Workers' Organizations in Baltimore, 1900-1915.*

Linda Corinne Pinkow, of Baldwin, N.Y.; B.A. Brandeis University, 1983. Sociology.

Julie Ann Ponessa, of Baltimore, Md.; B.A. Swarthmore College, 1988. History of Art.

Jeffrey Peter Raffensperger, of Baltimore, Md. Earth and Planetary Sciences.

Athanasse Raftopoulos, of Athens, Greece. Philosophy.

Ella Maria Ray, of Denver, Colo.; B.A. Colorado College, 1985. Anthropology.

Fred Jacob Redekop, of Richmond, Ind. Writing Seminars. *Grace Note.*

Sean Patrick Regan, of Rocky Point, N.Y. Physics and Astronomy.

In-Yeol Rhyu, of Korea; B.E. Seoul National University, 1974; M.E., 1979. Economics.

Leslie Ellen Richardson, of Oklahoma City, Okla.; B.A. Southern Methodist University, 1988. Writing Seminars. *Poems From A Temporary House.*

Christine Ellen Ritchie, of Auburn, Mass.; B.A. The Johns Hopkins University, 1987. Physics and Astronomy. *Statistics of Emission-Line Galaxies in Several of Morgan's Poor Clusters.*

Nancy Gail Rock, of Rochester, N.Y. Writing Seminars. *Fuck and other stories.*

Cynthia Marlene Rogers, of Tulare, Calif.; B.A. Occidental College, 1986. English.

Scott David Rubin, of St. Louis, Mo.; B.A. Harvard University, 1985. Writing Seminars. *A Place Along the Border.*

Timothy J. Ruggiero, of Albany, N.Y. Political Science. *A Critical Interpretation of the Realist Paradigm of Postwar American Foreign Policy.*

Margaret C. Rung, of State College, Pa.; B.A. Oberlin College, 1985. History.

Jonathan Hal Sadowsky, of New York, N.Y.; B.A. Wesleyan University, 1984. History.

Veronica Salles-Reese, of La Paz, Bolivia; B.A. George Washington University, 1979. Hispanic and Italian Studies.

Jasmine Kippy Sardessai, of Mexico City, Mexico; B.S. University of Pittsburgh, 1986. Psychology.

Ralph William Schoolcraft III, of Torrance, Calif.; B.A. University of California-Berkeley, 1985. French.

Stephen Adam Schwartz, of Boston, Mass. French.

Andrew David Schwarz, of Wellesley, Mass. History. *The Question of Sovereignty: The Twelve Years Truce of 1609 in the Context of Seventeenth-Century Diplomacy and Political Philosophy.*

Lilianna Maria Sekula, of Warsaw, Poland. History of Art.

Shuichi Senbongi, of Isesaki, Japan; B.A. Yokohama National University, 1980; M.A. Hitotsubashi University, 1985. Economics.

Chin-Chou Shiu, of Taiwan; B.A. National Taiwan University, 1977; M.A., 1981. Economics.

Gabriella Serri Sommers, of Cagliari, Italy. Hispanic and Italian Studies.

Howard Glen Spann, of Wilmore, Ky.; B.A. Asbury College, 1978; M.Div. Asbury Theological Seminary, 1983. History.

Scott Spector, of West Hartford, Conn.; B.A. Clark University, 1981. History.

Edmund Daniel Spevack, of Munich, Germany; B.A. Harvard University, 1986. History.

Scott Mitchell Sprenger, of Olympia, Wash.; B.A. University of Washington, 1983; M.A., 1986. French.

Donna Baier Stein, of Kansas City, Mo.; B.A. University of Kansas, 1972; M.A., 1977. Writing Seminars. *Versions.*

Michael Hugh Stevens, of Boston, Mass.; B.A. Middlebury College, 1985. Earth and Planetary Sciences.

Mary Elizabeth Stock, of Buffalo, N.Y.; B.S. State University of New York at Buffalo, 1985. Biology.

David Franklin Storm, of Bloomington, Ill.; B.S. University of Illinois at Urbana-Champaign, 1985. Physics and Astronomy.

James Michael Strine, of Baltimore, Md.; B.A. University of Delaware, 1986. Political Science. *Comparing Institutions: Lawyers in the Executive Branch and Congress.*

I-Yu Tai, of Taipei, Taiwan; B.A. Brown University, 1989. Writing Seminars. *six epigraphes antiques.*

Annie Harumi Takeuchi, of San Francisco, Calif.; B.A. Yale University, 1984; M.M. The Johns Hopkins University, 1986. Psychology.

Kelly Sue Thompson, of Freeland, Mich.; B.S. Cedar Crest College, 1987. Biology.

Thoraya Tlatli, of Tunis, Tunisia; B.A. Université de Montréal, 1982. French.

Giuseppe Tosi, of Salerno, Italy. Hispanic and Italian Studies.

Duanhua Tu, of Shanghai, China; B.A. Shanghai Institute of Foreign Trade, 1982; M.A. Chinese Academy of Social Sciences, 1986. Economics.

Ann Karin van Dijk, of Toronto, Canada. History of Art.

William Robert Van Witzenburg, of Ottawa, Canada. Chemistry.

K. L. Venkatakrishna, of Bangalore, India; B.S. Bangalore University; M.S. University of Oklahoma. Physics and Astronomy.

Barbara Maria Victoriano, of Boston, Mass.; B.A. Simmons College, 1985; M.A. The Catholic University of America, 1987. Hispanic and Italian Studies.

Philip Joseph Vilardo, of West Grove, Pa.; B.A. Pennsylvania State University, 1985. Sociology.

Yoshio Wada, of Fujisawa, Japan; B.A. Waseda University, Japan, 1986. Economics.

Andrew Eric Wald, of Boston, Mass.; Physics and Astronomy.

Naelong Wang, of Taipei, People's Republic of China; B.S. National Tsing Hua University, 1980. Chemistry.

Heather Anne Warren, of Alexandria, Va.; B.A. Cornell University, 1981; M.Div. Emory University, 1985. History.

Christine S. Weaver, of York, Pa.; B.A. Connecticut College, 1988. Writing Seminars. *Conductors.*

Pamela Tandy Wells, of Durham, N.C.; B.A. Goucher College, 1988. Writing Seminars. *Tricks: Six Stories and Five Poems.*

E. Joshua Welsh, of Washington, D.C.; B.A. Kenyon College, 1984. Philosophy.

Rachel T. Wetzsteon, of New York, N.Y.; B.A. Yale College, 1989. Writing Seminars. *Shuttlecocks.*

Mitchel Eric Weyuker, of Brooklyn, N.Y.; B.A. Brandeis University, 1985. Sociology.

Mark Donald Wieczorek, of Capistrano Beach, Calif. Physics and Astronomy.

Peter Jon Wiley, of Rochester, N.Y.; B.A. Colgate University, 1989. Writing Seminars. *Journey Down a Barn's Length.*

Michael Edmund Winston, of Houston, Texas; French.

Nathan Wirtschafter, of Palo Alto, Calif.; History. *Peter Drucker: A Conservative Approach to the Associative State.*

Joseph Louis Wise, of Stamford, Conn.; B.S. New York University, 1955. Economics. *Lonaconing - An Economic Survey.*

Norman Ka-Ming Wong, of Honolulu, Hawaii; B.A. University of Chicago, 1986. Writing Seminars. *Cultural Revolution.*

Amy Kay Wygant, of Franklin, Pa.; B.M. University of Hartford, 1975; A.M. Harvard University, 1979. French.

Dongylian Yao, of Suahou, China. Mathematics.

Chi Zhang, of Beijing, People's Republic of China. Economics.

Yanyun Zhang, of Nanjing, China. Economics.

Yiqiang Zhang, of Shanghai, China; B.S. Fundan University, 1982; M.S., 1985. Earth and Planetary Sciences.

Zhi zhong Zhang, of Beijing, China; B.A. Peking University, People's Republic of China, 1982; M.A., 1985. History.

Ying Zhou, of Beijing, China; B.S. Yunnan University, 1984. Earth and Planetary Sciences.

Daniel Charles Ziskin, of Camden, N.J.; Physics and Astronomy.

Thomas Zittel, of Kaiserslautern, Germany. Political Science. *Reagan's Seizure of EPA: The Theory and Practice of the Administrative Presidency.*

Doctors of Education in The School of Continuing Studies

Eddie M. Denning, of Mt. Olive, N.C.; B.A. Towson State University, 1973; M.Ed. The Johns Hopkins University, 1976. *A Comparison of a Nonoral and an Oral Method of Teaching Reading Association Skills to Children with Language Learning Disabilities.*

Albert Michael Hess, of Baltimore, Md.; B.S. Towson State University, 1972; M.Ed. Loyola College, 1975. *The Effects of Contingency Contracting and Parent Training on the Truant Behavior and Classroom Performance of Students with Mild Handicaps.*

Ruth Siskind Lisansky, of Baltimore, Md.; B.S. Towson State University, 1944; M.Ed. University of Maryland, 1972; C.A.S. The Johns Hopkins University, 1981. *The Effect of Cognitive Style of Decision Making, Level of Career Decidedness and Completion of the Life and Career Planning Course on Retention rate of Undecided Entering Traditional-Age College Freshmen.*

Harry Francis Rizer, of Belcamp, Md.; B.S. Frostburg State University, 1975; M.S. Virginia Commonwealth University, 1980. *A Measure of the Effectiveness of Computer Based Rate Enhancement on the Text Generating Performance of Individuals with Severe Physical Disabilities.*

Elana Esterson Rock, of Baltimore, Md.; B.A.University of Pennsylvania, 1981; M.A. New York University, 1982. *Program and ED Teacher Variables Affecting the Mainstreaming Rate of Children with Serious Emotional Disturbance.*

Diana Lynn Strohecker, of Baltimore, Md.; B.S. Towson State University, 1977; M.S. The Johns Hopkins University, 1981; C.A.S., 1986. *The Relative Efficacy of a Traditional Resource Program and Special Education Consultant Model on the Reading Achievement of Students with Learning Disabilities.*

Doctors of Musical Arts in The Peabody Conservatory of Music

Eugene Charles McGregor Boyle, Junior, of Columbia, S.C.; B.M. University of South Carolina, 1981; M.M. The Johns Hopkins University, 1985. Composition.

Nanette Butler, of Los Alamos, N.M.; B.M. Arizona State University, 1980; M.M. University of Southern California, 1982. Piano.

John Riley Haws, of Fort Worth, Texas; B.M. Texas Christian University, 1975; M.M. The Johns Hopkins University, 1979. Piano. *Henri Dutilleux's Early Chamber Music with Piano: an Analysis of a Formative Style.*

Hye Sook Kim, of Seoul, Korea; B.M. Seoul National University, 1978; M.M. Seoul National University, 1981; M.M. The Johns Hopkins University, 1983. Piano.

Bruce Philip Mahin, of Radford, Va.; B.M. West Virginia University, 1980; M.M. Northwestern University, 1982. Composition. *Leitmotific Elements in Claude Debussy's* La Chute de La Maison Usher: *A Pitch Class Set Analysis.*

Robert Young McMahan, of Hampstead, Md.; B.M. Peabody Conservatory of Music, 1969; M.M. Peabody Conservatory of Music, 1972; M.A. St. John's College, 1977. Composition. *A Reconstruction and Examination of "The Sunken Bell", an Unfinished Opera by Carl Ruggles.*

Suzanne Newcomb, of Columbia, Ohio; B.M. Cincinnati Conservatory, 1983; M.M. The Johns Hopkins University, 1985. Piano.

Dominic Sargent, of Oundle, Great Britain; B.A. Cambridge University, 1984; M.M. The Johns Hopkins University, 1986. Conducting.

Catherine Sentman, of Wilmington, Del.; B.A. College of William and Mary, 1979; M.M. The Johns Hopkins University, 1985. Voice.

Frederick Eugene Urrey, of Highland Park, N.J.; B.M. Louisiana State University, 1971; M.M. Louisiana State University, 1973; Dipl. Vienna Hochschule Für Musik, 1977. Voice.

Doctors of Science in The School of Hygiene and Public Health

Caroline Bagley Burnett, of Alexandria, Va.; B.S.N. Columbia Union College, 1971; M.S.N. The Catholic University of America, 1976. Health Policy and Management. *The Effect of Breast Cancer Disclosure Legislation on Physician Disclocure Practices.*

Charlyn Black, of Winnipeg, Canada; M.D. University of Manitoba, 1979. Health Policy and Management. *Variations in Patterns of Primary Care Among the Elderly.*

June M. Buckle, of Baltimore, Md.; B.S.N. Florida International University, 1977; M.S.N. University of North Carolina, 1979. Health Policy and Management. *Predicting Post-Hospital Resource Use with Severity.*

Vivian Tse Chen, of Silver Spring, Md.; B.A. University of Wisconsin, 1975; M.S.W. University of Michigan, 1976. Health Policy and Management. *Factors Associated with Adult-Onset Drug Abuse and Dependence Syndromes.*

Ruth Kettler Finkelstein, of Washington, D.C.; B.A. University of Michigan, 1977; M.A. Case Western Reserve University, 1979. Health Policy and Management. *The Governor's Advisory Council on AIDS in Maryland: The Myth of Effectiveness and The Effectiveness of Myth.*

Brenda Marion Gray, of Baltimore, Md.; B.A. University of Sydney, 1967; M.A., 1973. Health Policy and Management. *Health Care of the Children of Teenaged Mothers: Early Child Bearing and the Use of Pediatric Ambulatory Health Care Services.*

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Anna Estelle Margaret Verne Waller, of Chapel Hill, N.C.; B.A. University of North Carolina, 1982. Maternal and Child Health. *Identification of Risk Factors for Injury in Adolescent Dancers.*

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Show-Li Chen, of Taipei, Republic of China; B.A. National Chung Hsing University, 1976; M.S. National Defense Medical Center, 1980. Immunology and Infectious Diseases. *Identification and Characterization of Human Papillomavirus Type 6 Proteins in Papillomata and Transfected Cell Lines.*

Francois Pathe Diop, of Dakar, Senegal; B.A. University of Dakar, 1979; M.A. Demographic Training and Research Institute, 1981. Population Dynamics. *Economic Determinants of Child Health and the Utilization of Health Services in Sub-Saharan Africa: The Case of Ivory Coast.*

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Rosemarie Beth Hakim, of Boston, Mass.; B.A. University of Massachusetts, 1967; B.S.N. Worcester State College, 1981; M.S. Tufts University, 1983. Epidemiology. *A Case Control Study of Childhood Strabimus and Parental Occupational Lead Exposure.*

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Catherine Bishop Johannes, of Newton, Mass.; B.S. Florida State University, 1975; M.S. Harvard University, 1978. Epidemiology. *Hormonal Factors in Relationship to Migraine Headache Attacks in Young Women.*

Marc Joseph Kaufman, of Sudbury, Mass.; B.A. Wesleyan University, 1983. Environmental Health Sciences. *Serotonin 5HT1c Receptor Mediated Second Messenger Production and Interactions in Choroid Plexus.*

Diane Sue Keeney, of York, Pa.; B.S. Pennsylvania State University, 1978; M.S. Iowa State University, 1983. Population Dynamics. *Effects of Luteinizing Hormone on Leydig Cell Volume, Number and Proliferation in Testes of Adult Rats.*

Deloris Elizabeth Koziol, of Kensington, Md.; B.A. University of Delaware, 1971; M.P.H. The Johns Hopkins University, 1986. Epidemiology. *Human Immunodeficiency Virus Type 1 and Hepatitis B Virus Infections in a Single Sample of Homosexual Men: A Comparison of Risk Factors and Effect of Coexisting Infections.*

Ruth Ellen Levine, of Ithaca, N.Y.; B.S. Cornell University, 1981. Population Dynamics. *Determinants of Women's Employment in Metropolitan Mexico: A Life Cycle Perspective.*

Robert Edward Martin, of York Harbor, Maine; B.S. Yale University, 1976. Environmental Health Sciences. *Quantitative Description for Bacterial Deposition and Initial Biofilm Development in Porous Media.*

Carol Ann Molinari, of Baltimore, Md.; B.A. Brooklyn College, 1974; M.P.H. University of North Carolina, 1975; M.B.A. University of Baltimore, 1980. Health Policy and Management. *Hospital Board Effectiveness: Relationships Between Governing Board Characteristics and Hospital Financial Viability.*

K. Gregory Moore, of Cambridge, Md.; B.S. University of Maryland, 1978. Environmental Health Sciences. *In Vitro Studies on Epidermal Cell Injury by Toxicants and Contact Sensitizers.*

Alfredo Morabia, of Geneva, Switzerland; M.D. University of Geneva, 1978. M.P.H. The Johns Hopkins University, 1987. Epidemiology. *Plasma Thyroid Hormones and Breast Cancer.*

Jean Marie Naples, of West Haverstraw, N.Y.; B.S. Philadelphia College of Pharmacy and Science, 1977; M.P.H. University of California at Berkeley, 1981; M.D. University of Maryland, 1989. Environmental Health Sciences. *A Study of Red Cedarwood Oil and its Effects on Cercariae of* Schistosoma Mansoni.

Thomas Alan Neubert, of Montrose, Colo.; B.S. Georgetown University, 1979; M.S. George Washington University, 1984. Immunology and Infectious Diseases. *Characterization of the* Crithidia luciliae *3'-Nucleotidase/nuclease and its Regulation .*

Mary Happel Palmer, of Catonsville, Md.; B.S.N. University of Maryland, 1975; M.S., 1982. Health Policy and Management. *Urinary Continence Status of Newly Admitted Elderly Nursing Home Residents: A Longitudinal Study over a One Year Period.*

Bahjat Fouad Qaqish, of Salt, Jordan; M.B.,B.S. University of Jordan, 1980. Biostatistics. *Multivariate Regression Models Using Generalized Estimating Equations.*

Krishna Gopal Rampal, of Kuala, Malaysia; M.B.B.S. Agra University, 1975; M.P.H. Mahidol University, 1982; M.P.H. The Johns Hopkins University, 1986. Environmental Health Sciences. *Pulmonary Function as a Predictor of Ischemic Heart Disease.*

Nancy Elizabeth Riley, of Honolulu, Hawaii; B.A. University of Pennsylvania, 1977; M.A. University of Hawaii, 1983;M.P.H., 1983. Population Dynamics. *Gender and Generation: Family Formation in Modern Beijing.*

Todd Webster Seeley, of Seattle, Wash.; B.S. University of California at Davis, 1983. Biochemistry. *The Role of* Escherichia coli *UvrB in Nucleotide Excision Repair.*

James Sham, of Kowloon, Hong Kong; B.Sc. The Chinese University of Hong Kong, 1981; M.Phil., 1983. Environmental Health Sciences. *The Influences of Pulmonary Mechanoreceptors on the Cardiovascular Responses to Carotid Baroreceptor and Chemoreceptor Stimulation.*

Ulrike Steinbach, of Mill Valley, Calif.; B.S. University of California at Davis, 1986. Behavioral Sciences and Health Education. *The Effect of Social Networks on Institutionalization and Mortality of Elderly People.*

Myron Anthony Waclawiw, of Columbia, Md.; B.A. The Johns Hopkins University, 1978; M.A., 1980. Biostatistics. *Extension of the Stein Estimating Procedure through the Use of Estimating Functions.*

Ping Yang, of Beijing, China; M.D. Beijing Medical College, 1983; M.P.H. The Johns Hopkins University, 1985. Epidemiology. *A Genetic Analysis on Familial Aggregation of Selected Midline Congenital Anomalies.*

Hassan Hussein Zaky, of Dokki, Egypt; B.S. Cairo University, 1981; M.S., 1984. Population Dynamics. *Simultaneous Approach to Family Size Decisions in Egypt.*

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Paul M. Cole, of Gaithersburg, Md.; B.A. Gustavus Adolphus College, 1965; M.S.F.S. Georgetown University, 1981. *Neutralité du Jour: The Conduct of Swedish Security Policy since 1945.*

Paul Humes Folta, of Alexandria, Va.; B.A. Gordon College, 1979; M.A. Georgetown University, 1981. *The New Role of The Chinese Defense Industries in the Civilian Economy: 1978-1987.*

Yufan Hao, of Harbin, China; Diploma Heilongjiang University, 1982; M.A. The Johns Hopkins University S.A.I.S., 1984. *Solving the Dilemma in China Policy, 1978-1979: A Case Study of Normalization of U.S.-China Relations and the Taiwan Relations, Act.*

Gilbert Nuruli Khadiagala, of Kakamega, Kenya; B.A. University of Nairobi, 1980; M.A. McMaster University, 1982. *The Frontline States in Southern African International Relations, 1975-1989.*

Lori Esposito Murray, of Stamford, Conn.; B.A. Yale University, 1977; M.A. The Johns Hopkins University S.A.I.S., 1981. *Salt I and Congress: Building a Consensus for Nuclear Arms Control.*

Marco Rimanelli, of Rome, Italy; Laurea University of Rome, 1980; M.A. The Johns Hopkins University S.A.I.S., 1982. *The "Least of the Powers": Italy's Foreign, Security and Naval Policy in the Quest for Mediterranean Pre-Eminence, 1860s-1940s.*

Emad Eldin Ali Shahin, of Maadi, Egypt; B.A. The American University in Cairo, 1980; M.A. 1983. *The Restitution of Islam: A Comparative Study of the Islamic Movements in Contemporary Tunisia and Morocco.*

David Wurmser, of Towson, Md.; B.A. The Johns Hopkins University, 1982; M.A. S.A.I.S., 1984. *The Evolution of Israeli Grand Society, Strategy and Tactics and their Confluence with Classic Democratic Philosophy.*

Lanxin Xiang, of Shanghai, China; B.A. Fudan University, 1981; M.A. The Johns Hopkins University S.A.I.S., 1985. *Recasting the Imperial Far East: The Conflict over China — A Case Study of Anglo-American Relations 1945-50.*

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Doctors of Philosophy in the School of Medicine

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Suzanne Elizabeth Barbour, of King of Prussia, PA; B.S., Cook College, 1983. Molecular Biology and Genetics Program in Immunology. *Competing Constraints to Lateral Diffusion in the Plasma Membrane.*

K. Christopher Beard, of Pittsburgh, PA; A.B., University of North Carolina at Chapel Hill, 1984. Cell Biology and Anatomy. *Postcranial Anatomy, Locomotor Adaptations, and Paleoecology of Early Cenozoic Plesiadapidae, Paromomyidae, and Micromomyidae (Eutheria, Dermoptera).*

Kevin Graham Becker, of Baltimore, MD; B.S., Emory University, 1978. Molecular Biology and Genetics Program in Immunology. *Studies of Expression and Function of MHC Genes Transfected into Human Lymphoid Cells.*

Audrone R. Biknevicius, of New York, NY; B.S., State University of New York at Stony Brook, 1981, M.A., 1984. Cell Biology and Anatomy. *Biomechanical Design of the Mandibular Corpus in Carnivores.*

Ying Cha, of Beijing, People's Republic of China; B.M., Beijing Medical College, 1982. Department of Pharmacology and Molecular Sciences. *Characterization of Membrane Glycoproteins from Mouse Subcellular Organelles.*

Lawrence James Cisek, Jr., of Owings Mills, MD; B.A., University of Pennsylvania, 1982. Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. *Purification and Characterization of CTD-Kinase—A Protein Kinase which Phosphorylates the Largest Subunit of RNA Polymerase II.*

Charles Edward Connor, Jr., of Baltimore, MD; B.S., Loyola College of Maryland, 1978, M.S., Vanderbilt University, 1982, J.D., University of Maryland (Baltimore), 1985. Neuroscience. *The Neural Basis of Tactual Roughness Perception.*

Sharon Elizabeth Crane, of Baltimore, MD; B.A., Johns Hopkins University, 1984. Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. *Interaction of Visna Virus with Target Cells: Receptor Binding and Virus Induced Cell Fusion.*

Fayez Mahmoud Hamzeh, of Amman, Jordan; M.B.B.S., The University of Jordan, 1981. Pharmacology and Molecular Sciences. *9-(1,3-Dihydroxy-2-Propoxymethyl) Guanine (Ganciclovir, DHPG) and Human Cytomegalovirus Replication.*

Samuel Jack Hassenbusch III, of Cleveland, OH; B.A., Johns Hopkins University, 1974, M.D. 1978. Pharmacology and Molecular Sciences. *Study of the Theoretical and Experimental Pharmacokinetics of Intraarterial Infusions of BCNU in a Rabbit Brain Tumor Model.*

Sheryl Louise Henderson, of Madison, WI; B.A., Wellesley College, 1982. Biochemistry, Cellular and Molecular Biology Training Program-Biological Chemistry. *Transcriptional Initiation and Termination in Rodent Ribosomal RNA Genes.*

Tzyh-chang Hwang, of Baltimore, MD; M.B., National Yang-Ming Medical College, 1975, M.S., Institute of Physiology, National Taiwan University, 1984. Physiology. *Regulation of Epithelial Chloride Channels: Roles of Protein Kinases and Arachidonic Acid.*

Klaus H. Kästner, of Münster, West Germany, M.S., University of Maryland (College Park), 1986. Biochemistry, Cellular and Molecular Biology Training Program-Biological Chemistry. *Differentiation of 3T3-L1 Preadipocytes: The Insulin-Responsive Glucose Transporter and Stearoyl-CoA Desaturase.*

Andrew Peter Levy, of Baltimore, MD; B.A., Yale University, 1982. Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. *A Novel Endothelial Cell Growth Factor from the Mouse Neuroblastoma Cell Line NB41.*

Mathew Wilmen MacCumber, of Baltimore, Md; A.B., Princeton University, 1984, M.D., Johns Hopkins University, 1988. Neuroscience. *Endothelin: Local Synthesis and Action in the Brain, Eye and Peripheral Tissues.*

Robert C. Millonig, Jr., of Falls Church, VA; B.S., Manhattan College, 1984. Biochemistry, Cellular and Molecular Biology Training Program-Cell Biology and Anatomy. *The Structure and Assembly of F-Actin.*

Judith L. Roe, of Berkeley, CA; A.B., Vassar College, 1979, M.S., George Washington University, 1982. Biochemistry, Cellular and Molecular Biology Training Program-Biological Chemistry. *Regulation of Membrane Fusion and Secretory Events in the Sea Urchin Embryo.*

Curtis Landon Ruegg, of San Carlos, CA; B.S., University of California (Davis), 1985. Pharmacology and Molecular Sciences. *Molecular Characterization of Retroviral Mediated Immunosuppression: Human Immunodeficiency Virus Type 1 as a Prototype.*

Samir Joseph Sauma, of Beirut, Lebanon; B.S., University of Nebraska-Lincoln, 1982, M.S., Yale University, 1983, M.F.A., Columbia University, 1985. Pharmacology and Molecular Sciences. *Biochemical and Antigenic Characterization of* Schistosoma mansoni *Proteins Anchored in the Surface Membrane by a Glycolipid Tail.*

Lisa M. Shantz, of Mocanaqua, PA; B.S., University of Scranton, 1984. Pharmacology and Molecular Sciences. *Studies on the Inhibition of Proliferation, Differentiation and Carcinogenesis by Dehydroepiandrosterone.*

James H. Shero, of Baltimore, MD; B.A., State University of New York at Buffalo, 1982. Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. *Genetic Analysis of Centromere Function in* Saccharomyces cerevisiae.

Eric Sibley, of Los Angeles, CA; A.B., Harvard College, 1982. Biochemistry, Cellular and Molecular Biology Training Program-Biological Chemistry. *Characterization of the Mouse Insulin Receptor Gene Promoter.*

John Henry Sinard, of Farmington Hills, MI; A.B., Harvard College, 1982. Biochemistry, Cellular and Molecular Biology Training Program-Cell Biology and Anatomy. *Assembly of Acanthamoeba Myosin-II: A Biochemical, Biophysical, Molecular Biological, and Cell Biological Approach.*

Elizabeth Anne Thiele, of Fort Smith, AR; A.B., Washington University in St. Louis, 1983. Neuroscience. *Effects of Secretagogue Treatment on mRNA and Protein Levels in Peptide Producing Cells.*

Christopher Augustin Vaz, of Khadki, Pune, India; B.Tech., India Institute of Technology, Bombay, 1984. Biomedical Engineering. *Adaptive Fourier Estimation of Time-Varying Evoked Potentials.*

John Vernachio, of Carteret, NJ; B.S., University of Vermont, 1984. Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. *Molecular and Cellular Analysis of Qa-2: A Nonclassical MHC Gene Product.*

Sidney Waldo Whiteheart, of Clemmons, NC; B.S., Emory University, 1983. Biochemistry, Cellular and Molecular Biology Training Program-Biological Chemistry. *Studies of Post-Translational Protein Modifications: Analyses of the Sialylation States of Penultimate Saccharides and of Novel Ethanolamine-Phosphoglycerol Moieties on Elongation Factor 1alpha.*

Mary Ann Wilson, of Baltimore, MD; A.B., University of California (Berkeley), 1982. Biochemistry, Cellular and Molecular Biology Training Program-Neuroscience. *The Organization of Serotonergic Projections to Cerebral Cortex in Primates.*

Hua Xu, of Kunming, People's Republic of China; B.S., Peking University, 1983. Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics. *Mechanism and Regulation of Ty Transposition in the Yeast* Saccharomyces cerevisiae.

Doctors of Philosophy in The G.W.C. Whiting School of Engineering

Kevin Wayne Archer, of Seattle, Wash.; B.A. McGill University, 1981; M.A., 1983. Geography and Environmental Engineering. *The Theory and Practice of Regional Geography: A Comparison of Vidalian and Marxian Perspectives.*

Yaw Oliver Chang, of Taipei, Taiwan; B.S. National Chiao Tung University, 1980; M.S.E. The Johns Hopkins University, 1985. Mathematical Sciences. *Network Programming Models for Ecosystem Development: Global Optima.*

Gordon Dickinson Cobb, of Arlington, Va.; B.S. Carnegie-Mellon University, 1983; M.S.E. The Johns Hopkins University, 1986. Geography and Environmental Engineering. *Modeling and Experimental Simulations of Organic Contaminant Biotransformations in Subsurface Environments.*

Gerald Neal Day, of Baltimore, Md.; B.S.C.E. University of Maryland, 1975; M.S.C.E. Georgia Institute of Technology, 1976. Geography and Environmental Engineering. *A Methodology for Updating a Conceptual Snow Model with Snow Measurements.*

Arthur Leland Delcher, of Baltimore, Md.; B.A. Loyola College in Maryland, 1973; M.A. The Johns Hopkins University, 1977; M.S.E., 1986. Computer Science. *Complexity Issues in Parallel Logic Programming.*

Yujie Ding, of Tonghua, Jilin, People's Republic of China; M.S.E.E. Purdue University, 1987. Electrical and Computer Engineering. *Nonlinear Interactions of Light with Fundamental Systems Single Electrons, Semiconductors, and Magnetized Vaccuum.*

Menachem Elimelech, of Hadera, Israel; B.S. Hebrew University of Jerusalem, 1984. Geography and Environmental Engineering. *The Effect of Particle Size on the Kinetics of Deposition of Brownian Particles in Porous Media.*

Christian Fazi, of Brescia, Italy; B.S. University of Maryland, 1973; M.S. The Johns Hopkins University, 1985. Electrical and Computer Engineering. *Breakdown Silicon p-n Junctions Due to Short-Pulse, High-Field Electromagnetic Stress.*

Eran Isaac Feitelson, of Jerusalem, Israel; B.A. Hebrew University of Jerusalem, 1982. Geography and Environmental Engineering. *The Spatial Effects of Land Use Regulations: The Case of the Chesapeake Bay Critical Area Law.*

G. Charmaine Gilbreath, of Highland Park, Ill.; M.S.E. The Johns Hopkins University, 1986. Electrical and Computer Engineering. *Forward Multi-Beam Mixing in Diffusion Driven Photorefractive Materials.*

Mukund Srinivasan-Iyengar, of Madras, India; B. Tech. Indian Institute of Technology, 1985. Civil Engineering. *Critical Excitations of Structural Systems.*

Hao Jiang, of Shanghai, People's Republic of China; M.S. East China Institute of Textile Science and Technology, 1981. Materials Science and Engineering. *Nonlinear Elasticity and Structure of Poly (p-phenylene benzobistheazole) (PBZT).*

Michael Perry Johns, of Worcester, Mass.; B.A. University of Massachusetts, 1982. Geography and Environmental Engineering. *The Production of Primacy in Latin America: an Enquiry into the Urbanization of Argentina, 1870-1930.*

Yan Ke, of Beijing, China; M.S.E. The Johns Hopkins University, 1987. Computer Science.

Vladimir Marianov Kluge, of Santiago, Chile; Certificate, Universidad de Chile, 1976; M.S.E. The Johns Hopkins University, 1987. Geography and Environmental Engineering. *Deterministic and Probabilistic Models for the Siting of Fire Fighting Equipment and Stations.*

Dmitry Krass, of Novosibirsk, U.S.S.R.; M.S.E. The Johns Hopkins University, 1986. Mathematical Sciences. *Contributions to the Theory and Applications of Markov Decision Processes.*

Thusitha Kumarasena, of Matara, Sri Lanka; B.Sc. University of Moratuwa, Sri Lanka, 1982; M.S.E. The Johns Hopkins University, 1986. Civil Engineering. *Wind Response Prediction of Long-Span Bridges.*

Andrea Leeson, of Winnepeg, Canada; B.S. Eastern Kentucky University, 1984. Geography and Environmental Engineering. *Aerobic Biotransformations of Halogenated Aliphatic Compounds by a Methanotrophic Consortium.*

John Stephen Morgan, of Washington, D.C.; B.S. Loyola College, 1984; M.S.E. The John Hopkins University, 1988. Materials Science and Engineering. *Properties of Sputtered Thin Films of Indium Nitride and Aluminum Nitride.*

Catherine Anne Schevon, of Eatontown, N.J.; B.S. The Johns Hopkins University, 1984. Computer Science. *Algorithms for Geodesics on Convex Polytopes.*

Felix Sepp Seebacher, of Rottenmann, Austria; Diploma, University of Agriculture, Vienna, Austria, 1979; Diploma, International Institute for Hydraulic and Environmental Engineering, Delft, Netherlands, 1982; M.S.E. The Johns Hopkins University, 1986. Geography and Environmental Engineering. *Optimal Groundwater Quality Monitoring Well Placement Along a Compliance Boundary under Condition of Uncertainty.*

Daniel Serra, of Barcelona, Spain; M.A. The Johns Hopkins University, 1987. Geography and Environmental Engineering. *Location and Districting of Hierarchical Facilities.*

Kenneth Richard Speck, of Baltimore, Md.; M.S.E. The Johns Hopkins University, 1987. Materials Science and Engineering. *Sol-Gel Growth of Vanadium Dioxide.*

Eugene Zenon Stakhiv, of Lviv, Ukraine; B.S. City College of New York, 1966; M.S. Florida State University, 1968. Geography and Environmental Engineering. *Cumulative Impact Analysis Framework for the U.S. Army Corps of Engineers Regulatory Program.*

Joanne Marie Stellato, of Philadelphia, Pa.; B.S. Drexel University, 1983. Electrical and Computer Engineering. *Phase Modulation in Hetero-nipi Supperlattices.*

Arturo Trujillo-Ventura, of Gava, Spain; M.S.E. The Johns Hopkins University, 1989. Geography and Environmental Engineering. *Optimum Design of Air Pollution Monitoring Networks: a Mathematical Programming Approach.*

Kuo-Chiang Wang, of Taipei, Taiwan; B.S. National Chiao Tung University, 1983; M.S.E. The Johns Hopkins University, 1987. Mechanical Engineering. *An Experimental Study of Notch Constraints in Low Cycle Fatigue.*

Stephen Andrew Wilkerson, of Baltimore, Md.; B.S.E. The Johns Hopkins University, 1982. Mechanical Engineering. *A boundry integral approach to three-dimensional underwater explosion bubble dynamics.*

Ben P. Yuhas, of Syracuse, N.Y.; B.A. University of Chicago, 1981; M.S.E. The Johns Hopkins University, 1986. Electrical and Computer Engineering. *The Processing of Visual Speech Signals using Parallel Distributed Computation.*

Weiman Zhao, of Kunming City, People's Republic of China; B.S. Tsinghua University, 1984; M.S.E. The Johns Hopkins University, 1987. Electrical and Computer Engineering. *Nonlinear Fiber Optics: Pulse Compression and Dark Solitons.*

Doctors of Philosophy in The School of Arts and Sciences

Allan Brewer Bailey, of Dallas, Texas; B.S. University of Texas at Dallas, 1982. Chemistry. *Design, Synthesis, and Investigation of New Tetrachalcogenafulvalene Pi-Donors as Components for Organic Conductors.*

Bonnie Lynne Bassler, of Chicago, Ill.; B.S. University of California-Davis, 1984. Biology.

Steven Charles Beadle, of Chicago, Ill.; B.A. Williams College, 1983; M.A. The Johns Hopkins University, 1985. Earth and Planetary Sciences. *The Origin of the Family Dendrasteridae (Echinoidea, Clypeasteroida): Rapid Evolutionary Change Through Heterochrony.*

Murry Dale Bentley, of Chattanooga, Tenn.; B.A. University of Tennessee, 1977; M.A. The Johns Hopkins University, 1984. Physics and Astronomy. *The Numerical Complex-Coordinate Hartree-Fock Method and the Calculation of Atomic Quasi-Bound States.*

Lori Robin Bernstein, of Hartford, Conn. Biology. *AP-1/Jun is differentially regulated in promotion-sensitive and resistant mouse epidermal JB6 cells.*

Kenneth Mansfield Bilby, of New York, N.Y.; B.A. Bard College, 1976; M.A. The Johns Hopkins University, 1984. Anthropology. *The Remaking of the Aluku: Culture, Politics, and Maroon Ethnicity in French South America.*

Douglas George Biow, of New York, N.Y.; B.A. Bennington College, 1979; M.A. The Johns Hopkins University, 1988. Hispanic and Italian Studies. *Narrative Self-Consciousness of the Marvelous in Virgil, Dante, Aristotle, and Tasso.*

William David Bowman, of Woodburn, Ore.; M.A. The Johns Hopkins University, 1984. History. *Priest, Parish, and Religious Practice: A Social History of Catholicism in the Archdiocese of Vienna, 1800-1870.*

Eileen Karen Bridge, of Bangor, Maine; B.A. Bennington College, 1981. Biology. *Genetic Analysis of Adenovirus Early Region 4.*

William Stanley Burgett, of Norman, Okla.; B.A. University of California-Berkeley, 1977; M.A. The Johns Hopkins University, 1986. Physics and Astronomy. *The Calculation of Correlation Functions in the Statistical Theory of Turbulence.*

Margaret E. Chamberlin, of Washington, D.C.; B.S. American University, 1964. Biology. *Characterization of a gene unique to mammals: Zona pellucida three.*

Kenneth Carter Chambers, of Los Alamos, N.M.; B.A. University of Colorado, 1979; M.A. The Johns Hopkins University, 1985. Physics and Astronomy. *High Redshift Radio Galaxies and the Role of Radio Sources in Galaxy Formation.*

In-Rae Cho, of Pusan, Korea; B.S. Seoul National University, 1975; M.A., 1977; M.A. The Johns Hopkins University, 1984. Philosophy. *Quantum Mechanics, Propensities, and Realism.*

Michelle Denise Coutu, of Hartford, Conn.; B.A. Wheaton College, 1980. Biology. *DNA Cloning of Vinculin and Analysis of its Structure and Function.*

Carol Lynn Cowan, of Vadnais Heights, Minn.; B.A. Western Maryland College, 1977; M.A. The Johns Hopkins University, 1980. Political Science. *Regional Arts Organizations in the United States: The Invisible Public Arts Agencies.*

Christine Daniels, of Detroit, Mich.; B.A. University of Michigan, 1976; M.A. Stanford University, 1978; M.A. The Johns Hopkins University, 1986. History. *Alternative Workers in a Slave Economy: Kent County, Maryland, 1675 to 1810.*

Mary-Ann Elisabeth Del Marmol, of Boston, Mass.; Licencie, Universite Catholique de Louvain, Belgium, 1979; M.A. The Johns Hopkins University, 1986. Earth and Planetary Sciences. *The Petrology and Geochemistry of Merapi Volcano, Central Java, Indonesia.*

Lucia Maria Desir, of Barrancabermeja, Colombia; B.A. Herbert H. Lehman College, 1974; M.A. The Johns Hopkins University, 1984. Anthropology. *Between Loyalties: Racial, Ethnic and 'National' Identity in Providencia, Colombia.*

Michael Andrew DiConti, of Glendale, Calif.; B.A. Occidental College, 1980; M.B.A. University of California, 1983; M.A. The Johns Hopkins University, 1987. Political Science. *The Multinational Corporation and Indigenous Entrepreneurship in Dependent Countries.*

William Joseph Diebold, of Nyack, N.Y. History of Art. *The Artistic Patronage of Charles the Bald.*

Julia Lynn Driver, of Crossville, Tenn.; B.A. University of Texas at Austin, 1983; M.A. The Johns Hopkins University, 1987. Philosophy. *The Virtues of Ignorance.*

Thomas Arthur Dughi, of Miami, Fla; B.A. Columbia College, 1976; M.A. The Johns Hopkins University, 1982. English. *The Breath of Christ's Mouth: Apocalypse and Prophecy in Early Reformation Ideology.*

Eric Reese Fearon, of Augusta, Maine; B.A. The Johns Hopkins University, 1983. Biology. *A Genetic Model of Colorectal Tumoigenesis.*

Pamela Lou Feldman-Savelsberg, of Newark, N.J.; B.A. Indiana University, 1980; M.A. The Johns Hopkins University, 1985. Anthropology. *'Then we were many': Bangangte Women's Conceptions of Health, Fertility, and Social Change in a Bamileke Chiefdom, Cameroon.*

Henry Closson Ferguson, of Schenectady, N.Y.; B.A. Harvard University, 1981. M.A. The Johns Hopkins University, 1984. Physics and Astronomy. *Population Studies in Groups and Clusters of Galaxies.*

Mary Claire Fuller, of Atlanta, Ga.; B.A. Dartmouth College, 1981; M.A. The Johns Hopkins University, 1984. English. *The Age of Expansion: Recounting Renaissance Voyages.*

Mary Margaret Gallo, of Athens, Ga.; B.S. Catholic University of America, 1983; M.A. The Johns Hopkins University, 1988. Chemistry. *Ab Initio Quantum Chemical Studies of Potential Energy Hypersurfaces and Their Interactions.*

Shemin Ge, of Taizhou, People's Republic of China; M.A. The Johns Hopkins University, 1987. Earth and Planetary Sciences. *On the Mechanics of Tectomically-Driven Fluid Flow in Foreland Basins.*

Eva Geulen, of Bergneustadt, West Germany; M.A. The Johns Hopkins University, 1984. German. *Reden und Schweigen: Sprache und Sprachtheorien Adalbert Stifters.*

Silvia Blitzer Golombek, of Buenos Aires, Argentina; Licentiate, Belgrano University, Argentina, 1978. Sociology. *A Sociological Image of the City : Through Children's Eyes.*

Bruce LaMont Grasberger, of Philadelphia, Pa.; B.A. Swarthmore College, 1981. Biology. *Reconstitution of the High Affinity Receptor for Immunoglobulin E into Phospholipid Vesicles.*

Daifang Gu, of Shanghai, China; B.S. Fudan University, 1982; M.A. The Johns Hopkins University, 1987. Earth and Planetary Sciences. *On Surface Wave Generation by Boundary Disturbances.*

George Drake Guthrie, of Evansville, Ind.; B.A. Harvard University, 1984; M.A. The Johns Hopkins University, 1986. Earth and Planetary Sciences. *Electron Microscopy of Fluid-Mineral Interactions.*

Virginia Lee Hagee, of St. Louis, Mo.; B.A. Vassar College, 1976; M.S. Vanderbilt University, 1983; M.A. The Johns Hopkins University, 1986. Earth and Planetary Sciences. *Propagating Waves and Paleomagnetic Secular Variation.*

Jeffrey Joseph Hayes, of Greenville, Pa.; B.S. Bowling Green State University, 1983. Chemistry. *I. The Missing Nucleoside Analysis: A New Technique to Study Recognition of DNA by Protein. Application to the Lambda Repressor/ Or^1 and cro/P^R1 Complexes of Bacteriophage Lamda. II. A Structural Analysis of the Complex of the Xenopus Transcription Factor IIIA and the SS RNA Gene. III. Structure of SS DNA in a Nucleosome.*

Peter Joseph Heaney, of Bedford Village, N.Y.; B.A. Harvard University, 1984; M.A. The Johns Hopkins University, 1988. Earth and Planetary Sciences. *Transmission Electron Microscopy of Phase Transitions and Microstructures in Minerals.*

Gregory Dawson Hess, of San Francisco, Calif.; Diploma, London School of Economics, 1983; B.A. University of California-Davis, 1984; M.A. The Johns Hopkins University, 1986. Economics. *Essays on Macroeconomic Policy: A Game Theoretic and Econometric Analysis.*

Hiroyuki Imai; of Tokyo, Japan; B.A. Keio University, Tokyo, 1974; M.A. University of Michigan, 1982; M.A. The Johns Hopkins University, 1985. Economics. *Business Cycles in China, 1956-86.*

Makoto Ishibashi, of Tokyo, Japan; B.S. University of Tsukuba, Japan, 1974; M.S. Rikkyo University, 1976; D.Sc., 1983. Mathematics. *Effective version of the Tschebotareff density theorem in function fields.*

Volker Kaiser, of Waltrop, West Germany; M.A. Ohio State University, 1982. German. *Metaphern der Reflexion im modernen deutschen Gedicht.*

Ira Abraham Kalish, of New York, N.Y.; B.A. Vassar College, 1980. Economics. *An Empirical Portfolio Balance Model of Exchange Market Intervention: The Dollar-Deutschmark Rate.*

Masaki Kameko, of Himeji, Japan; B.S. Kyoto University, 1984. Mathematics. *Products of Projective Spaces as Steenrod Modules.*

Susan Kass, of New York, N.Y. Biology. *Mechanism of Ribosomal RNA Processing in Mammalian Cells.*

Paul Kevin Kienker, of Palatine, Ill. Biophysics. *The Distinguishability of Ion Channel Gating Models.*

Christopher Reid Kincaid, of Topsfield, Mass.; B.A. Wesleyan University, 1983; M.A. The Johns Hopkins University, 1988. Earth and Planetary Sciences. *Laboratory and Numerical Experiments on Subduction and Subduction-Related Processes.*

Michael Hobson Koval, of Chicago, Ill.; B.A. University of California-Berkeley, 1982. Biology. *Transport and metabolism of a fluorescent sphingomyelin analogue along the endocytic pathway in cultured fibroblasts.*

John Francis Krizmanic, of Joliet, Ill.; B.A. Northwestern University, 1983; M.A. The Johns Hopkins University, 1986. Physics and Astronomy. *A Search for the Oscillation of Muon Antineutrinos to Electron Antineutrinos Using the AGS Wide Band Beam.*

William Marshall Kuhn, of Columbus, Ohio; B.A. University of Chicago, 1979; M.A. The Johns Hopkins University, 1985. History. *Ceremony and Politics: The Management of British Royal Ceremonial, 1861-1911.*

Timothy Michael Kusky, of Glen Cove, N.Y.; B.S. State University of New York at Albany, 1983; M.A. The Johns Hopkins University, 1988. Earth and Planetary Sciences. *Tectonics of the Archean Slave Province.*

Katherine Tallman Landschulz, of Los Alamos, N.M. Biology. *In Vitro Maturation of Murine Erythroid Colony-Forming Units: Studies of Cell Surface Cell Cycle and Erythropoietin Action.*

Tod William Lauerman, of Racine, Wis.; B.A. New College, 1984; Biology. *The Functional Significance of the Amino Acid Differences Between Allelic Isozymes of Heart Type Lactate Dehydrogenase in Fundulus heteroclitus.*

Gang Ho Lee, of Chung Nam, Korea; B.S. Korea University, 1984; M.A. The Johns Hopkins University, 1988. Chemistry. *Photoelectron Spectroscopy of Negative Cluster Ions.*

Alan H. Lessoff, of Boston, Mass.; B.A. Columbia University, 1981; M.A. The Johns Hopkins University, 1985. History. *The Federal Government and the National Capital - Washington, 1861-1902.*

Stephen Lewis Longenecker, of Ephrata, Pa.; B.S. Shippensburg University of Pennsylvania, 1973; M.A. West Virginia University, 1975; M.A. The Johns Hopkins University, 1987. History. *Democracy's Pulpit: Religion and Egalitarianism Among Early Pennsylvania Germans.*

William Aaron Lyle, of Schenectady, N.Y.; B.S. College of William and Mary, 1983; M.A. The Johns Hopkins University, 1986. Physics and Astronomy. *Neutrino Oscillations: A Search for Electron Neutrino Appearance in a Wide Band Muon Neutrino Beam.*

Elizabeth Mancke, of Salem, Ore.; B.A. Colorado College, 1977; M.A. University of British Columbia, 1984; M.A. The Johns Hopkins University, 1986. History. *Two Patterns of New England Transformation: Machias, Maine, and Liverpool, Nova Scotia, 1760-1820.*

Stuart Herman Mayer, of New York, N.Y.; M.A. The Johns Hopkins University, 1987. Physics and Astronomy. *The Magnetic Properties of Ultrathin Iron-Silver Superlattices Fabricated by Molecular Beam Epitaxy.*

William Michael McBride, of Cleveland, Ohio; B.S. United States Naval Academy, 1974; M.S. Virginia Polytechnic Institute and State University, 1985. History of Science. *The Rise and Fall of a Strategic Technology: The American Battleship from Santiago Bay to Pearl Harbor, 1898-1941.*

Mary Kay McCormick, of Oceanside, N.Y.; B.S. Cornell University, 1982. Biology. *Molecular Genetics of Human Chromosome 21 and Down Syndrome.*

Douglas Frank McDonald, of Iowa City, Iowa; B.A. College of Wooster, 1980; M.A. The Johns Hopkins University, 1986. Economics. *Informational Structure and Price Volatility in Speculative Commodity Markets.*

Norma Claire Moruzzi, of Shrewsbury, Mass.; B.A. Amherst College, 1980. Political Science. *Speaking Through the Mask: The Constitution of the Body in the Political Narratives of Hannah Arendt.*

Daryl Dean Muenchau, of Lincoln, Neb.; B.S. University of Nebraska, 1976; M.S., 1979. Biology. *Structure and Function Analyses of Murine Retroviral Envelope Proteins: Definition of Receptor Binding Sequences.*

Gerardo Andres Munoz, of Concepcion, Chile; Licenciado en Fisica, Universidad de Concepcion, 1982; M.A. The Johns Hopkins University, 1984. Physics and Astronomy. *Field Theoretical Approach to Statistical Dynamics and Chaos.*

Mark Thomas Murphy, of New London, Conn.; B.S. University of California-Santa Cruz, 1977; M.A. The Johns Hopkins University, 1989. Earth and Planetary Sciences. *The Crystallization and Transport of Intermediate-Composition Magma.*

Wolfgang George Natter, of Brilon, West Germany; B.A. Wesleyan University, 1978; M.A. The Johns Hopkins University, 1982. German. *Literature at War: Reading and Writing in the Context of Institutions.*

Mark Austin Person, of State College, Pa.; B.A. Franklin and Marshall College, 1980; M.S. New Mexico Institute of Mining and Technology, 1984. Earth and Planetary Sciences. *Hydrologic Constraints on the Thermal Evolution of Continental Rift Basins: Implications for Petroleum Maturation.*

Stephen McLaren Phillips, of Exeter, England; B.Sc. University of Nottingham, England, 1980; M.A. The Johns Hopkins University, 1987. Earth and Planetary Sciences. *Ellesmerian and Eurekan Structures of Central Ellesmere Island, Canadian Arctic.*

Ning Qian, of Dongfai Jiangsu, People's Republic of China; B.S. Fundan University, 1982. Biophysics. *An Electro-diffusion Model of Axons, Dendrites, and Spines.*

Nancy Ruth Reagin, of Washington, D.C.; B.A. University of California-Berkeley, 1982; M.A. The Johns Hopkins University, 1985. History. *Bourgeois Women, Local Politics, and Social Change: The Women's Movement in Hanover, 1880-1933.*

Kenneth M. Reinhard, of Chicago, Ill.; B.A. University of California-Santa Cruz, 1981; M.A. The Johns Hopkins University, 1986. English. *Allegories of Mourning: Henry James, Psychoanalysis, and Representation.*

Simon Jan Richter, of Galt, Canada; B.A. University of Georgia, 1981; M.A. University of Toronto, 1983. German. *Laocoon's Body: Pain and Beauty in Eighteenth-Century German Aesthetics.*

Connie Lynn Rodriguez, of Richmond, Va.; B.A. University of Richmond, 1977; M.A. The Johns Hopkins University, 1985. Classics. *Poetry and Power: Studies on the Poets of the Augustan Age.*

Eric Paul Roorda, of Chicago, Ill.; B.A. College of William and Mary, 1983; M.A. The Johns Hopkins University, 1986. History. *The Era of The Good Neighbor in the Dominican Republic, 1930-1940.*

Robert Arthur Rosenberg, of Mamaroneck, N.Y.; B.A. Harvard University, 1972. History of Science. *Academic Physics and the Origins of Electrical Engineering in America.*

John Michael Ruppert, of Weston, W.Va.; B.A. West Virginia University, 1983. Biology. *Characterization of a Human Zinc Finger Gene Family.*

Mark Edward Rush, of Boston, Mass.; B.A. Harvard University, 1983; M.A. The Johns Hopkins University, 1987. Political Science. *Redistricting: The Courts and American Elections.*

Thomas Alan Ryden, of South Bend, Ind.; B.A. University of California-San Diego, 1981. Biology. *Characterization of avian retroviral enhancer binding proteins.*

Abby Beth Sandler, of Yonkers, N.Y. Biology. *Adenovirus Early Region 4 and RNA Metabolism in Infected Cells.*

William Stanley Saunders, of Seattle, Wash.; B.S. University of Washington, 1983. Biology. *Antibodies to a Cloned Autoantigen Bind to a Novel Subnuclear Region.*

Constance Joanna Sheldon, of Alexandra, Va.; B.A. Cornell University, 1975; M.A. The Johns Hopkins University, 1986. German. *Dread Amusement: Studies in the Melancholic Absurd (Buchner, Brecht, Beckett, and Artaud).*

Alison Andrews Smith, of New York, N.Y.; B.A. Vassar College, 1977; M.A. The Johns Hopkins University, 1981. History. *The Establishment of an Aristocratic Family in Renaissance Verona: the Verita from the Fifteenth to the Early Seventeenth Century.*

Michael William Smith, of La Mesa, Calif. Biology. *Mitochondrial and nuclear gene analysis of the killifish, Fundulus heteroclitus, a reconstruction of phylogenetic history.*

Tara A. Smith, of Hoboken, N.J.; B.A. University of Virginia, 1983; M.A. The Johns Hopkins University, 1985. Philosophy. *The Inflation of Rights.*

Ana Aspras Steele, of Morristown, N.J.; B.A. Ohio University, 1971; M.A. The Johns Hopkins University, 1986. Hispanic and Italian Studies. *The Ideology of Setting in Elsa Morante's Fiction.*

Careen K. Tang, of Potomac, Md.; B.S. University of Maryland, 1984; M.A. The Johns Hopkins University, 1989. Chemistry. *An unusual mRNA pseudoknot structure is recognized by ribosomal protein S4 and required for translational repression.*

Eric Tevoedjre, of Toulouse, France; B.A. Webster College, 1981; M.A., 1983. Political Science. *The Limits of Deviance in Franco-African Relations: The Relations between France, Guinea (Konakry), the Congo, and Benin Between 1958-1981.*

Carolyn Rinkus Thompson, of Worcester, Mass. Political Science. *The Political Evolution of the Medicare Catastrophic Health Care Act of 1988.*

Kamau Thugge, of Nairobi, Kenya; M.A. The Johns Hopkins University, 1982. Economics. *An Open Economy Macro Model for Kenya: A 'Dependent Economy Model' Framework.*

Teresa Toscano, of Tangiers, Spain; Licenciatura, Universidad Autonoma de Madrid, 1976; M.A. The Johns Hopkins University, 1983. Hispanic and Italian Studies. *La retorica filosofica y politica de la generacion de 1868 y su impacto en la obra de Galdos.*

James Walter Tubbs, of Brooksville, Fla.; B.A. Indiana University, 1973; J.D., 1975. Political Science. *Roman Law Mind and Common Law Mind: A Study in the Comparative History of English and Continental Jurisprudence Before 1700.*

George John Turner, of Saugerties, N.Y. Biology. *Mutagenic Dissection of Cooperative Interactions in Human Hemoglobin.*

Monica Maria van Beusekom, of Rio de Janeiro, Brazil; B.A. Tufts University, 1982; M.A. The Johns Hopkins University, 1985. History. *Colonial Rural Development: French Policy and African Response at the Office du Niger, Soudan Francais (Mali), 1920-1960.*

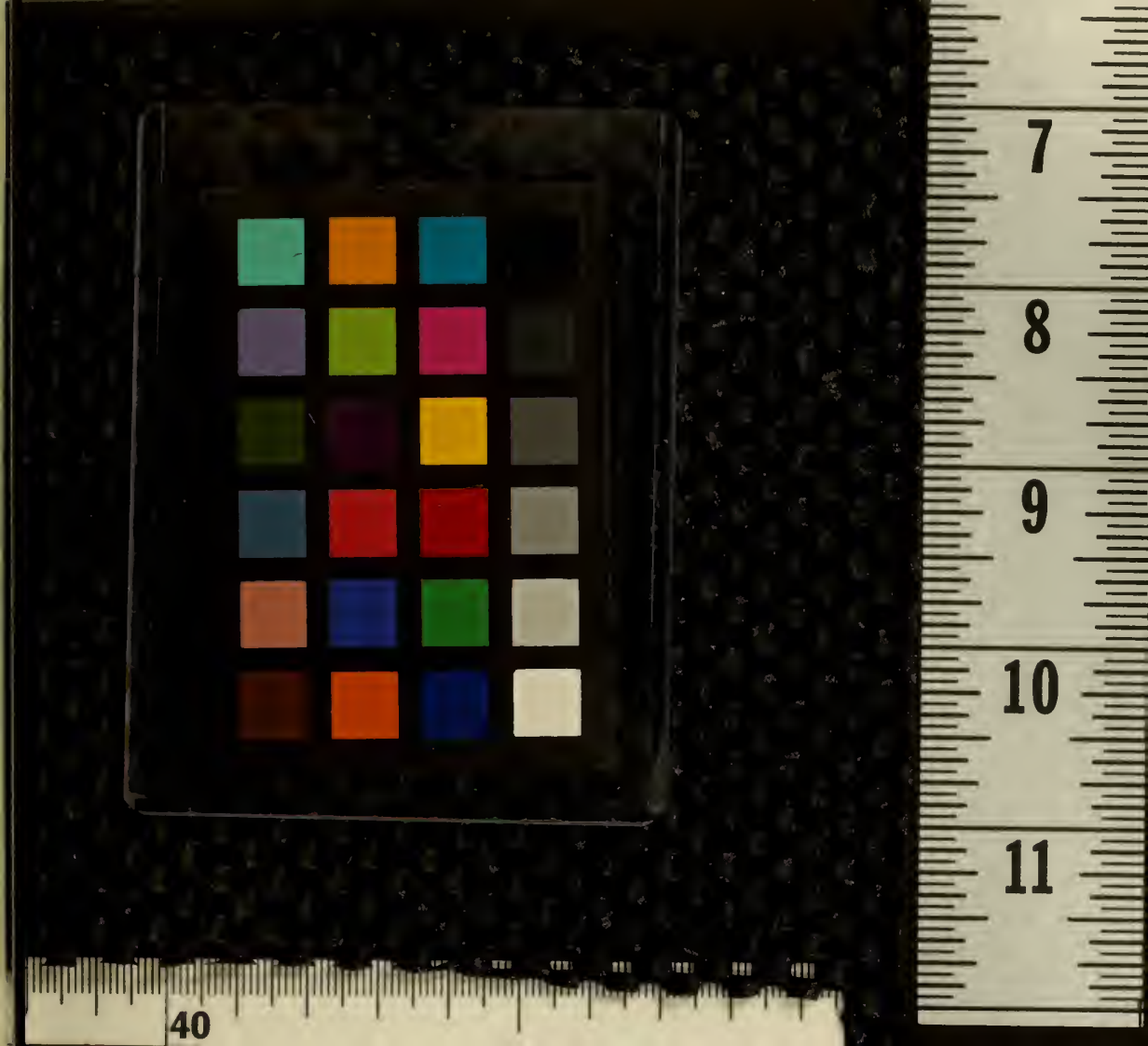
Mary Shepherd Gwaltney Vaz, of Newport News, Va.; B.A. College of William and Mary, 1983; M.A. The Johns Hopkins University, 1985. History. *Local Government in the Virginia Piedmont, 1720 to 1759.*

Anne Catherine Vila, of Oceanside, N.Y.; B.A. Brown University, 1983. French. *The Sensible Body: Medicine and Literature in Eighteenth Century France.*

Kevin Scott Webb, of Enfield, Conn.; B.S. Saint Michael's College, 1985; M.A. The Johns Hopkins University, 1988. Chemistry. *Part I: Multicomponent Annulation Reactions. Part II: A Mechanistic Study of Silyl Hydrotrioxides and Related Trioxides Reacting with Isolated Double Bonds: Syntheses of 1,2-Dioxetanes.*

Charles Andrew Wilkins, of Long Beach, Calif.; M.A. The Johns Hopkins University, 1986. Psychology. *Learning of Evaluative Judgments in Probabilistic Environments from Holistic Stimuli.*

Chan Y. Yoo, of Seoul, Korea; B.S. Yonsei University, 1980; M.A. The Johns Hopkins University, 1988. Political Science. *The International Relations of Korea as a Small State.*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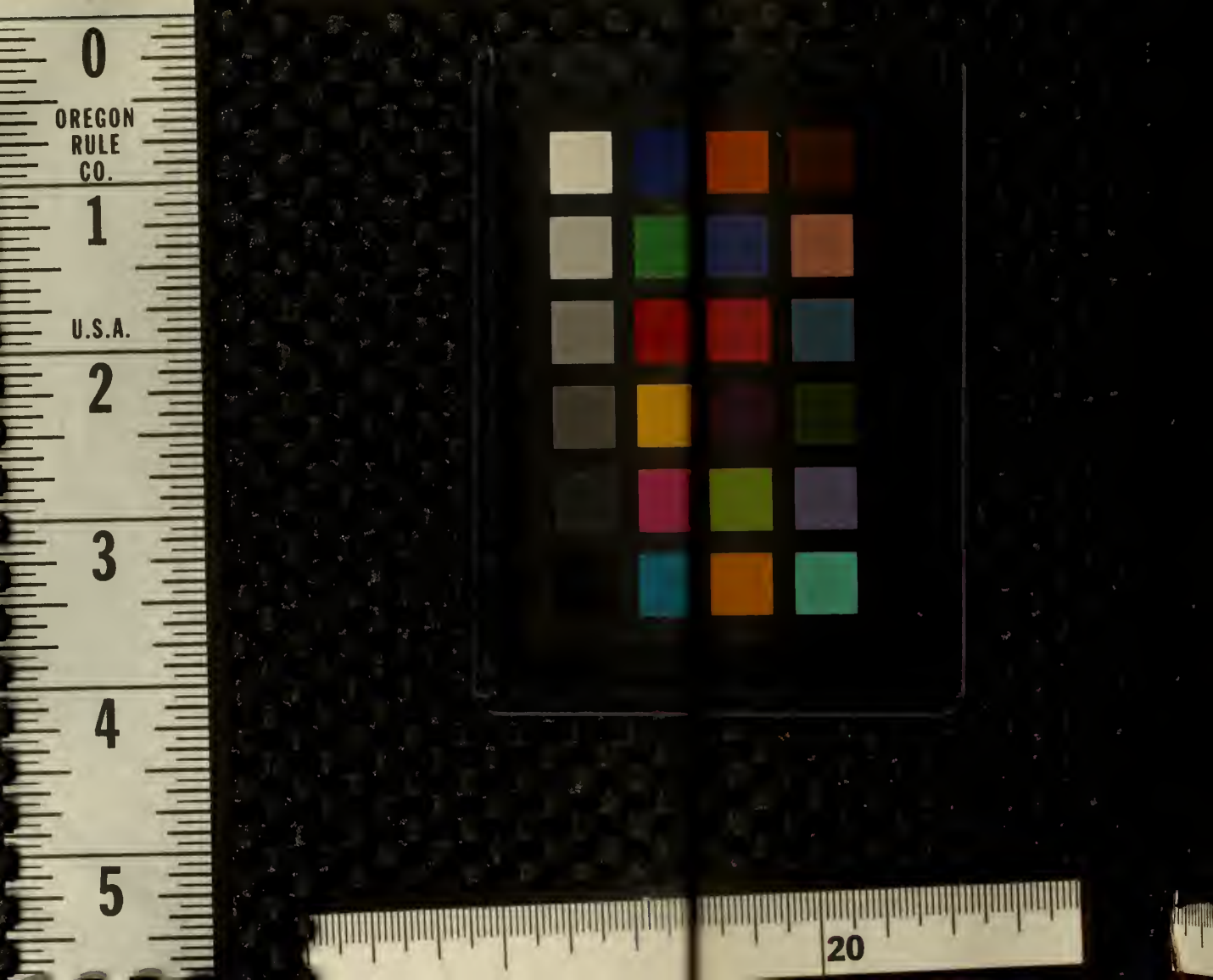
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